Authorization for Credit Card Transactions

Department of Homeland Security

Form G-1450

How To Fill Out Form G-1450

1. Type or print legibly in black ink.
2. Complete the "**Applicant's/Petitioner's/Requester's Information**," "**Credit Card Billing Information**," and "**Credit Card Information**" sections and sign the authorization. **NOTE:** The credit card must be issued by a U.S. bank.
3. Place your Form G-1450 ON TOP of your application, petition, or request package.

NOTE: Failure to provide the requested information may result in DHS and your financial institution not accepting the payment. DHS cannot process credit card payments without an authorized signature.

NOTE: Please see the USCIS Form G-1450 website for additional information.

We recommend that you print or save a copy of your completed Form G-1450 to review in the future and for your records.

By completing this transaction, you agree that you have paid for a government service and that the filing fee, biometric services fee and all related financial transactions are final and not refundable, regardless of any action DHS takes on an application, petition, or request. You must submit all fees in the exact amounts. DHS will charge your credit card up to the amount you authorize below.

Please refer to the form(s) you are filing for additional information, or you may call the USCIS Customer Contact number at **1-800-375-5283**. For TTY (deaf or hard of hearing) call: **1-800-767-1833**.

Applicant's/Petitioner's/Requester's Information (Full Legal Name)		
Given Name (First Name) JULIO	Middle Name (if any) N/A	Family Name (Last Name) CONFORTO
Credit Card Billing Information (Credit Card Holder's Name as it Appears on the Card)		
Given Name (First Name) Otavio	Middle Name (if any) H	Family Name (Last Name) SILVA
Credit Card Holder's Billing Address:		
Street Number and Name 5051 La Jolla Blvd	Apt. Ste. Flr. ☒ ☐ ☐	Number 202
City or Town San Diego	State CA	ZIP Code 92109
Credit Card Holder's Signature and Contact Information:		
Credit Card Holder's Signature		
Credit Card Holder's Daytime Telephone Number 5102419336	Credit Card Holder's Email Address otavio@yousalaw.com	
Credit Card Information		
Credit Card Number	**Credit Card Type:** ☐ Visa ☐ MasterCard ☐ American Express ☐ Discover	Authorized Payment Amount $ .00
Credit Card Expiration Date (mm/yyyy) CVV Code		

Authorization for Credit Card Transactions

Department of Homeland Security

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Applicant's/Petitioner's/Requester's Information (Full Legal Name)		
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Street Number and Name 5051 La Jolla Blvd	Apt. Ste. Flr. ☒ ☐ ☐	Number 202
City or Town San Diego	State CA	ZIP Code 92109
Credit Card Holder's Signature and Contact Information:		
Credit Card Holder's Signature		
Credit Card Holder's Daytime Telephone Number 5102419336	Credit Card Holder's Email Address otavio@yousalaw.com	
Credit Card Information		
Credit Card Number	**Credit Card Type:** ☐ Visa ☐ MasterCard ☐ American Express ☐ Discover	Authorized Payment Amount $ 300 .00
Credit Card Expiration Date (mm/yyyy) CVV Code		

Authorization for Credit Card Transactions

Department of Homeland Security

Form G-1450

How To Fill Out Form G-1450

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2. Complete the "**Applicant's/Petitioner's/Requester's Information**," "**Credit Card Billing Information**," and "**Credit Card Information**" sections and sign the authorization. **NOTE:** The credit card must be issued by a U.S. bank.
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Please refer to the form(s) you are filing for additional information, or you may call the USCIS Customer Contact number at **1-800-375-5283**. For TTY (deaf or hard of hearing) call: **1-800-767-1833**.

Applicant's/Petitioner's/Requester's Information (Full Legal Name)		
Given Name (First Name) JULIO	Middle Name (if any) N/A	Family Name (Last Name) CONFORTO
Credit Card Billing Information (Credit Card Holder's Name as it Appears on the Card)		
Given Name (First Name) Otavio	Middle Name (if any) H	Family Name (Last Name) SILVA
Credit Card Holder's Billing Address:		
Street Number and Name 5051 La Jolla Blvd	Apt. Ste. Flr. ☒ ☐ ☐	Number 202
City or Town San Diego	State CA	ZIP Code 92109
Credit Card Holder's Signature and Contact Information:		
Credit Card Holder's Signature		
Credit Card Holder's Daytime Telephone Number 5102419336	Credit Card Holder's Email Address otavio@yousalaw.com	
Credit Card Information		
Credit Card Number	**Credit Card Type:** ☐ Visa ☐ MasterCard ☐ American Express ☐ Discover	Authorized Payment Amount $ 2,965 .00
Credit Card Expiration Date (mm/yyyy) CVV Code		

EMPLOYMENT-BASED SECOND PREFERENCE (EB-2) IMMIGRANT PETITION WITH REQUEST FOR A NATIONAL INTEREST WAIVER

Petitioner: CONFORTO, Julio

HS Law Corp
P.O Box 90487
San Diego - CA - United States

YOUSA Law Firm
Tel: +1 415 425-2508
contato@yousalaw.com

TABLE OF CONTENTS
Petitioner: **CONFORTO, Júlio**
Type of Petition: **I-140, EB-2 National Interest Waiver**
Classification Sought: **Immigration and Nationality Act 203(b)(2)(B)**

Forms	● Form G-1450 ● Form G-1145 ● Form G-28 ● Form I-140 ● Form I-907 ● Form ETA-9089, Final Determination ● Form ETA-9089, Appendix A
Petition Cover Letter	● Petition Cover Sheet ● Summary of Cover Letter ● Petition Cover Letter
Exhibit A	Resume
Exhibit B **ELIGIBILITY CRITERIA**	**Advanced Degree:** ● Bachelor's Degree in Electrical Engineering, Diploma and Transcripts, and Corresponding Translation ● Master's Degree in Electrical Engineering, Diploma and Transcripts, and Corresponding Translation ● Academic Evaluation ● Work Records: - Siemens USA Company Records and Contracts - Siemens Healthineers Professional Experience Records - Brazilian Employment Record Booklet (CTPS) and Corresponding Translation

Tel: +1 415 425-2508
contato@yousalaw.com

Exhibit C **NATIONAL INTEREST WAIVER**	**C.I - First Prong - Substantial Merit and National Importance:** ● Business Plan ● Legal research about the national importance **C.II - Second Prong - Well-Positioned to Advance the Proposed Endeavor:** ● U.S. Offer Letter from Siemens ● Evidence Supporting the Viability of the Proposed Endeavor: - Property Appraisal in Curitiba ● Evidence of Original Contributions: - TJPR ● Licenses - CREAs ● Membership - IEEE ● Letters of Support: - Mr. Tiago Ianiski - Mr. Wilson José da Silva - Mr. Antonio Ernesto Todeschini - Mr. Stenio Henrique Souza - Mr. Daniel de Sousa Albino - Mr. Thiago Spadaria Soso ● Evidence of High Salary and Financial Feasibility: - Paychecks Brazil 2025 - U.S. Tax Documents - Brazilian Individual Income Tax Returns (IRPF) - Paychecks Brazil 2024 - Glassdoor Salary Evidence - U.S. Paychecks ● Honors and Recognitions: - Honorable Mention - UNOPAR 2011 - LARS 2012 - Outstanding Alumnus Recognition - 2014 - UNOPAR 2010 Magazine ● Other Comparable Evidence: - PPI - Client Recognitions ● Evidence of English Proficiency ● Courses and Certifications: - Magnet Syphon Por De-ICE Virtual Training Certification - MAGNETOM Verio, February 2026; MAGNETOM Spectra - SOMATOM go Course - Service Essentials for SPECT Systems - Service Essentials for AX/XP System Advanced Level - OCA CT System Essentials for Siemens CTs - Native/syngo User Interface - MAGNETOM Aera/Skyra and Avanto fit/Skyra fit Upgrade Course

Tel: +1 415 425-2508
contato@yousalaw.com

	- MAGNETOM Avanto and Espree System Course - Service Essentials for CT - MAGNETOM ESSENZA System Training - Service Essentials for MR - SYNGO incl. Leonardo Workstation - Introduction to MAGNETOM Spectra - Native/syngo for MR Introduction to Numaris/X Certification - Smart Remote Services Essentials Certification - UNOPAR 2011 - UNOPAR 2012 - MAGNETOM Cima.X/Cima.X Fit Delta Training - MAGNETOM Vida/Sola Delta Training - MR Safety Knowledge Assessment - Spike Troubleshooting Course - MR Imaging Quality WBT Certification ● Participation in a Social Project ● Reviews, Articles, and Reports: - IFEF - XXVII Brazilian Congress in Biomedical Engineering - IEEE Chile - SFORUM 2012 - SFORUM - Master's Dissertation
<u>Exhibit D</u> **PERSONAL DOCUMENTS**	● Júlio Conforto's Birth Certificate and Corresponding Translation ● Júlio Conforto's L-1B Approval Notice ● Júlio Conforto's Form I-94 ● Júlio Conforto's Passport ● Marriage Certificate and Corresponding Translation ● Derivatives's Birth Certificate and Corresponding Translation ● Derivatives's L-2B Status Document ● Derivatives's Passport

e-Notification of Application/Petition Acceptance

Department of Homeland Security
U.S. Citizenship and Immigration Services

USCIS
Form G-1145

What Is the Purpose of This Form?

Use this form to request an electronic notification (e-Notification) when U.S. Citizenship and Immigration Services accepts your immigration application. This service is available for applications filed at a USCIS Lockbox facility.

General Information

Complete the information below and clip this form to the first page of your application package. You will receive one e-mail and/or text message for each form you are filing.

We will send the e-Notification within 24 hours after we accept your application. Domestic customers will receive an e-mail and/or text message; overseas customers will only receive an e-mail. Undeliverable e-Notifications cannot be resent.

The e-mail or text message will display your receipt number and tell you how to get updated case status information. It will not include any personal information. The e-Notification does not grant any type of status or benefit; rather it is provided as a convenience to customers.

USCIS will also mail you a receipt notice (I-797C), which you will receive within 10 days after your application has been accepted; use this notice as proof of your pending application or petition.

USCIS Privacy Act Statement

AUTHORITIES: The information requested on this form is collected pursuant to section 103(a) of the Immigration and Nationality Act, as amended INA section 101, et seq.

PURPOSE: The primary purpose for providing the information on this form is to request an electronic notification when USCIS accepts immigration form. The information you provide will be used to send you a text and/or email message.

DISCLOSURE: The information you provide is voluntary. However, failure to provide the requested information may prevent USCIS from providing you a text and/or email message receipting your immigration form.

ROUTINE USES: The information provided on this form will be used by and disclosed to DHS personnel and contractors in accordance with approved routine uses, as described in the associated published system of records notices [**DHS/USCIS-007 - Benefits Information System and DHS/USCIS-001 - Alien File (A-File) and Central Index System (CIS)**, which can be found at **www.dhs.gov/privacy**]. The information may also be made available, as appropriate for law enforcement purposes or in the interest of national security.

Complete this form and clip it on top of the first page of your immigration form(s).

Applicant/Petitioner Full Last Name	Applicant/Petitioner Full First Name	Applicant/Petitioner Full Middle Name
CONFORTO	**Julio**	**N/A**

Email Address	Mobile Phone Number (Text Message)
conforto.julio@gmail.com	

Notice of Entry of Appearance as Attorney or Accredited Representative

Department of Homeland Security

DHS Form G-28
OMB No. 1615-0105
Expires 05/31/2021

Part 1. Information About Attorney or Accredited Representative

1. USCIS Online Account Number (if any)

► 0 0 7 4 9 2 6 2 5 4 3 8

Name of Attorney or Accredited Representative

2.a. Family Name (Last Name): HAVERROTH SILVA

2.b. Given Name (First Name): Otavio

2.c. Middle Name: N/A

Address of Attorney or Accredited Representative

3.a. Street Number and Name: Po Box 90487

3.b. ☐ Apt. ☐ Ste. ☐ Flr. N/A

3.c. City or Town: San Diego

3.d. State: CA **3.e.** ZIP Code: 92169
(USPS ZIP Code Lookup)

3.f. Province: N/A

3.g. Postal Code: N/A

3.h. Country: USA

Contact Information of Attorney or Accredited Representative

4. Daytime Telephone Number: 5102419336

5. Mobile Telephone Number (if any): 5102419336

6. Email Address (if any): otavio@legalhs.com

7. Fax Number (if any): N/A

Part 2. Eligibility Information for Attorney or Accredited Representative

Select **all applicable** items.

1.a. ☒ I am an attorney eligible to practice law in, and a member in good standing of, the bar of the highest courts of the following states, possessions, territories, commonwealths, or the District of Columbia. If you need extra space to complete this section, use the space provided in **Part 6. Additional Information**.

Licensing Authority: California

1.b. Bar Number (if applicable): 343486

1.c. I (select **only one** box) ☒ am not ☐ am subject to any order suspending, enjoining, restraining, disbarring, or otherwise restricting me in the practice of law. If you are subject to any orders, use the space provided in **Part 6. Additional Information** to provide an explanation.

1.d. Name of Law Firm or Organization (if applicable): HS Law Corp

2.a. ☐ I am an accredited representative of the following qualified nonprofit religious, charitable, social service, or similar organization established in the United States and recognized by the Department of Justice in accordance with 8 CFR part 1292.

2.b. Name of Recognized Organization: N/A

2.c. Date of Accreditation (mm/dd/yyyy): N/A

3. ☐ I am associated with N/A, the attorney or accredited representative of record who previously filed Form G-28 in this case, and my appearance as an attorney or accredited representative for a limited purpose is at his or her request.

4.a. ☐ I am a law student or law graduate working under the direct supervision of the attorney or accredited representative of record on this form in accordance with the requirements in 8 CFR 292.1(a)(2).

4.b. Name of Law Student or Law Graduate: N/A

Part 3. Notice of Appearance as Attorney or Accredited Representative

If you need extra space to complete this section, use the space provided in **Part 6. Additional Information**.

This appearance relates to immigration matters before (select **only one** box):

1.a. ☒ U.S. Citizenship and Immigration Services (USCIS)

1.b. List the form numbers or specific matter in which appearance is entered.

I-140 – ETA-9089 I-907

2.a. ☐ U.S. Immigration and Customs Enforcement (ICE)

2.b. List the specific matter in which appearance is entered.

N/A

3.a. ☐ U.S. Customs and Border Protection (CBP)

3.b. List the specific matter in which appearance is entered.

N/A

4. Receipt Number (if any)

► N/A

5. I enter my appearance as an attorney or accredited representative at the request of the (select **only one** box):

☐ Applicant ☒ Petitioner ☐ Requestor

☐ Beneficiary/Derivative ☐ Respondent (ICE, CBP)

Information About Client (Applicant, Petitioner, Requestor, Beneficiary or Derivative, Respondent, or Authorized Signatory for an Entity)

6.a. Family Name (Last Name) CONFORTO

6.b. Given Name (First Name) JULIO

6.c. Middle Name N/A

7.a. Name of Entity (if applicable)

N/A

7.b. Title of Authorized Signatory for Entity (if applicable)

N/A

8. Client's USCIS Online Account Number (if any)

► N/A

9. Client's Alien Registration Number (A-Number) (if any)

► A- N/A

Client's Contact Information

10. Daytime Telephone Number

+55 41 9 9851-7658

11. Mobile Telephone Number (if any)

+55 41 9 9851-7658

12. Email Address (if any)

conforto.julio@gmail.com

Mailing Address of Client

NOTE: Provide the client's mailing address. **Do not** provide the business mailing address of the attorney or accredited representative **unless** it serves as the safe mailing address on the application or petition being filed with this Form G-28.

13.a. Street Number and Name Po Box 90487

13.b. ☐ Apt. ☐ Ste. ☐ Flr. N/A

13.c. City or Town San Diego

13.d. State CA **13.e.** ZIP Code 92169

13.f. Province N/A

13.g. Postal Code N/A

13.h. Country

USA

Part 4. Client's Consent to Representation and Signature

Consent to Representation and Release of Information

I have requested the representation of and consented to being represented by the attorney or accredited representative named in **Part 1.** of this form. According to the Privacy Act of 1974 and U.S. Department of Homeland Security (DHS) policy, I also consent to the disclosure to the named attorney or accredited representative of any records pertaining to me that appear in any system of records of USCIS, ICE, or CBP.

Part 4. Client's Consent to Representation and Signature (continued)

Options Regarding Receipt of USCIS Notices and Documents

USCIS will send notices to both a represented party (the client) and his, her, or its attorney or accredited representative either through mail or electronic delivery. USCIS will send all secure identity documents and Travel Documents to the client's U.S. mailing address.

If you want to have notices and/or secure identity documents sent to your attorney or accredited representative of record rather than to you, please select **all applicable** items below. You may change these elections through written notice to USCIS.

1.a. ☒ I request that USCIS send original notices on an application or petition to the business address of my attorney or accredited representative as listed in this form.

1.b. ☐ I request that USCIS send any secure identity document (Permanent Resident Card, Employment Authorization Document, or Travel Document) that I receive to the U.S. business address of my attorney or accredited representative (or to a designated military or diplomatic address in a foreign country (if permitted)).

NOTE: If your notice contains Form I-94, Arrival-Departure Record, USCIS will send the notice to the U.S. business address of your attorney or accredited representative. If you would rather have your Form I-94 sent directly to you, select **Item Number 1.c.**

1.c. ☐ I request that USCIS send my notice containing Form I-94 to me at my U.S. mailing address.

Signature of Client or Authorized Signatory for an Entity

2.a. Signature of Client or Authorized Signatory for an Entity

Julio Cortez

2.b. Date of Signature (mm/dd/yyyy) 09/25/2026

Part 5. Signature of Attorney or Accredited Representative

I have read and understand the regulations and conditions contained in 8 CFR 103.2 and 292 governing appearances and representation before DHS. I declare under penalty of perjury under the laws of the United States that the information I have provided on this form is true and correct.

1. a. Signature of Attorney or Accredited Representative

1.b. Date of Signature (mm/dd/yyyy) 09/25/2026

2.a. Signature of Law Student or Law Graduate

N/A

2.b. Date of Signature (mm/dd/yyyy) N/A

Part 6. Additional Information

If you need extra space to provide any additional information within this form, use the space below. If you need more space than what is provided, you may make copies of this page to complete and file with this form or attach a separate sheet of paper. Type or print your name at the top of each sheet; indicate the **Page Number**, **Part Number**, and **Item Number** to which your answer refers; and sign and date each sheet.

1.a Family Name (Last Name): CONFORTO

1.b. Given Name (First Name): JULIO

1.c. Middle Name: N/A

2.a. Page Number: N/A **2.b.** Part Number: N/A **2.c.** Item Number: N/A

2.d. N/A

3.a. Page Number: N/A **3.b.** Part Number: N/A **3.c.** Item Number: N/A

3.d. N/A

4.a. Page Number: N/A **4.b.** Part Number: N/A **4.c.** Item Number: N/A

4.d. N/A

5.a. Page Number: N/A **5.b.** Part Number: N/A **5.c.** Item Number: N/A

5.d. N/A

6.a. Page Number: N/A **6.b.** Part Number: N/A **6.c.** Item Number: N/A

6.d. N/A

Immigrant Petition for Alien Workers

Department of Homeland Security
U.S. Citizenship and Immigration Services

USCIS
Form I-140
OMB No. 1615-0015
Expires 02/28/2027

For USCIS Use Only	Fee Stamp	Priority Date	Consulate	Action Block

Classification

- ☐ 203(b)(1)(A) Alien of Extraordinary Ability
- ☐ 203(b)(1)(B) Outstanding Professor or Researcher
- ☐ 203(b)(1)(C) Multinational Executive or Manager
- ☐ 203(b)(2) Member of Professions with Advanced Degree/Exceptional Ability
- ☐ 203(b)(3)(A)(i) Skilled Worker
- ☐ 203(b)(3)(A)(ii) Professional
- ☐ 203(b)(3)(A)(iii) Other Worker

Certification

- ☐ National Interest Waiver (NIW)
- ☐ Schedule A, Group I
- ☐ Schedule A, Group II

Remarks

To be completed by an Attorney or Accredited Representative (if any).	☒ Select this box if Form G-28 or Form G-28I is attached.	Attorney State Bar Number (if applicable)	Attorney or Accredited Representative USCIS Online Account Number (if any)
		343486	007492625438

► **START HERE - Type or print in black ink.**

Part 1. Information About the Person or Organization Filing This Petition

If an individual is filing this petition, answer **Item Numbers 1.a. - 1.c.** If a company or organization is filing this petition, answer **Item Number 2.**

1.a. Family Name (Last Name): CONFORTO

1.b. Given Name (First Name): Julio

1.c. Middle Name: N/A

2. Company or Organization Name: N/A

Mailing Address

3.a. In Care Of Name: Otavio Haverroth Silva

3.b. Street Number and Name: Po Box 90487

3.c. ☐ Apt. ☐ Ste. ☐ Flr. N/A

3.d. City or Town: San Diego

3.e. State: CA **3.f.** ZIP Code: 92169

3.g. Province: N/A

3.h. Postal Code: N/A

3.i. Country: USA

Other Information

4. IRS Employer Identification Number (EIN) ► N/A

5. Are you a nonprofit organized as tax exempt or a governmental research organization? ☐ Yes ☒ No

6. Do you currently employ a total of 25 or fewer full-time equivalent employees in the United States, including all affiliates or subsidiaries of this company/organization? ☒ Yes ☐ No

7. U.S. Social Security Number (SSN) (if any) ► N/A

8. USCIS Online Account Number (if any) ► N/A

Part 2. Petition Type

This petition is being filed for (select **only one** box):

1.a. ☐ An alien of extraordinary ability.

1.b. ☐ An outstanding professor or researcher.

1.c. ☐ A multinational executive or manager.

1.d. ☐ A member of the professions holding an advanced degree or an alien of exceptional ability (who is **NOT** seeking a National Interest Waiver (NIW)).

1.e. ☐ A professional (at a minimum, possessing a bachelor's degree or a foreign degree equivalent to a U.S. bachelor's degree).

Part 2. Petition Type (continued)

1.f. ☐ A skilled worker (requiring at least two years of specialized training or experience).

1.g. ☐ Any other worker (requiring less than two years of training or experience).

1.h. ☒ An alien applying for an NIW (who **IS** a member of the professions holding an advanced degree or an alien of exceptional ability).

This petition is being filed (select **only one** box):

2.a. ☐ To amend a previously filed petition.

Previous Petition Receipt Number

► N/A

2.b. ☐ For the Schedule A, Group I or II designation.

Part 3. Information About the Person for Whom You Are Filing

1.a. Family Name (Last Name): CONFORTO

1.b. Given Name (First Name): Julio

1.c. Middle Name: N/A

Mailing Address

2.a. In Care Of Name: Otavio Haverroth Silva

2.b. Street Number and Name: Po Box 90487

2.c. ☐ Apt. ☐ Ste. ☐ Flr. N/A

2.d. City or Town: San Diego

2.e. State: CA **2.f.** ZIP Code: 92169

2.g. Province: N/A

2.h. Postal Code: N/A

2.i. Country: USA

Other Information

3. Date of Birth (mm/dd/yyyy): 07/26/1991

4. City/Town/Village of Birth: Maringa

5. State or Province of Birth: Parana

6. Country of Birth: Brazil

7. Country of Citizenship or Nationality: Brazil

8. Alien Registration Number (A-Number) (if any)

► A- N/A

9. U.S. SSN (if any) ► 347474770

Information About His or Her Last Arrival in the United States

If the person for whom you are filing is in the United States, provide the following information.

10. Date of Last Arrival (mm/dd/yyyy): 08/31/2025

11.a. Form I-94 Arrival-Departure Record Number

► 70226700 6A4

11.b. Expiration Date of Authorized Stay Shown on Form I-94 (mm/dd/yyyy): 08/11/2028

11.c. Status on Form I-94 (for example, class of admission, or paroled, if paroled): L1B

12. Passport Number: GE193654

13. Travel Document Number: N/A

14. Country of Issuance for Passport or Travel Document: Brazil

15. Expiration Date for Passport or Travel Document (mm/dd/yyyy): 05/01/2032

Part 4. Processing Information

Provide the following information for the person named in **Part 3.** (select **only one** box):

1.a. ☒ Alien will apply for a visa abroad at a U.S. Embassy or U.S. Consulate at:

1.b. City or Town: Rio de Janeiro

1.c. Country: Brazil

2.a. ☐ Alien is in the United States and will apply for adjustment of status to that of lawful permanent resident.

Part 4. Processing Information (continued)

2.b. Alien's current country of residence or, if now in the United States, last country of permanent residence abroad.

Brazil

If you provided a United States address in **Part 3.**, provide the person's foreign address in **Item Numbers 3.a. - 3.f.**:

3.a. Street Number and Name: 727 C. Joaquim Ignacio Taborda Ribas St

3.b. ☒ Apt. ☐ Ste. ☐ Flr. 1003

3.c. City or Town: Curitiba

3.d. Province: Parana

3.e. Postal Code: 80730330

3.f. Country: Brazil

If the person's native alphabet is other than Roman letters, type or print the person's foreign name and address in the native alphabet in **Item Numbers 4.a. - 5.g.**:

4.a. Family Name (Last Name): N/A

4.b. Given Name (First Name): N/A

4.c. Middle Name: N/A

Mailing Address

5.a. In Care Of Name: N/A

5.b. Street Number and Name: N/A

5.c. ☐ Apt. ☐ Ste. ☐ Flr. N/A

5.d. City or Town: N/A

5.e. Province: N/A

5.f. Postal Code: N/A

5.g. Country: N/A

If you answer "Yes" to **Item Numbers 6.a. - 10.**, provide the case number, office location, date of decision, and disposition of the decision in the space provided in **Part 11. Additional Information**.

6.a. Are you filing any other petitions or applications with this Form I-140? ☒ Yes ☐ No

6.b. If you answered "Yes" **to Item Number 6.a.**, select all applicable boxes:

- ☐ Form I-485
- ☐ Form I-131
- ☐ Form I-765
- ☒ Other (Provide an explanation in **Part 11. Additional Information**.)

7. Is the person for whom you are filing in removal proceedings? ☐ Yes ☒ No

8. Has any immigrant visa petition ever been filed by or on behalf of this person? ☐ Yes ☒ No

9. Are you filing this petition without an original labor certification because the original labor certification was previously submitted in support of another Form I-140? ☐ Yes ☒ No

10. If you are filing this petition without an original labor certification, are you requesting that U.S. Citizenship and Immigration Services (USCIS) request a duplicate labor certification from the Department of Labor (DOL)? ☐ Yes ☒ No

Part 5. Additional Information About the Petitioner

Type of petitioner (select **only one** box):

1.a. ☐ Employer

1.b. ☒ Self

1.c. ☐ Other (For example, Lawful Permanent Resident, U.S. citizen or any other person filing on behalf of the alien)

N/A

If a company or an organization is filing this petition, provide the following information:

2. Type of Business: N/A

3. Date Established (mm/dd/yyyy): N/A

4. Current Number of U.S. Employees: N/A

5. Gross Annual Income $ N/A

6. Net Annual Income $ N/A

7. NAICS Code ▶ N/A

8. Labor Certification DOL Case Number: N/A

Part 5. Additional Information About the Petitioner (continued)

9. Labor Certification DOL Filing Date (mm/dd/yyyy)

N/A

10. Labor Certification Expiration Date (mm/dd/yyyy)

N/A

If an individual is filing this petition, provide the following information.

11. Occupation

Customer Service Engineer 3

12. Annual Income $ 90.459,20

Part 6. Basic Information About the Proposed Employment

1. Job Title

General and Operations Managers

2. SOC Code ▶ 1 1 - 1 0 2 1

3. Nontechnical Job Description

See page 8.

4. Is this a full-time position? ☒ Yes ☐ No

5. If the answer to **Item Number 4.** is "No," how many hours per week for the position?

6. Is this a permanent position? ☒ Yes ☐ No

7. Is this a new position? ☒ Yes ☐ No

8. Wages (Specify hour, week, month, or year):

$ 66,000.00 per year

Worksite Location

For **Item Numbers 9.a. - 9.e.**, provide the address where the person will work if different from the address provided in **Part 1.**

9.a. Street Number and Name: To be determined

9.b. ☐ Apt. ☐ Ste. ☐ Flr. TBD

9.c. City or Town: Detroid

9.d. State: MI **9.e.** ZIP Code: TBD

Part 7. Information About the Spouse and All Children of the Person for Whom You Are Filing

For **Part 7.**, provide information on the spouse and all children related to the individual for whom you are filing this petition. Also, note if the individual will apply for a visa abroad or adjustment of status as the dependent of the individual for whom the petition is filed. If you need extra space to provide information about additional family members, use the space provided in **Part 11. Additional Information**.

Person 1

1.a. Family Name (Last Name): DE AZEVEDO

1.b. Given Name (First Name): Diesica

1.c. Middle Name: N/A

2. Date of Birth (mm/dd/yyyy): 01/14/1991

3. Country of Birth

Brazil

4. Relationship: Spouse

5. Is he or she applying for adjustment of status? ☐ Yes ☒ No

6. Is he or she applying for a visa abroad? ☒ Yes ☐ No

Person 2

7.a. Family Name (Last Name): N/A

7.b. Given Name (First Name): N/A

7.c. Middle Name: N/A

8. Date of Birth (mm/dd/yyyy): N/A

9. Country of Birth

N/A

10. Relationship: N/A

11. Is he or she applying for adjustment of status? ☐ Yes ☐ No

12. Is he or she applying for a visa abroad? ☐ Yes ☐ No

Part 7. Information About Spouse and All Children of the Person for Whom You Are Filing (continued)

Person 3

13.a. Family Name (Last Name) N/A

13.b. Given Name (First Name) N/A

13.c. Middle Name N/A

14. Date of Birth (mm/dd/yyyy) N/A

15. Country of Birth
N/A

16. Relationship N/A

17. Is he or she applying for adjustment of status? ☐ Yes ☐ No

18. Is he or she applying for a visa abroad? ☐ Yes ☐ No

Person 4

19.a. Family Name (Last Name) N/A

19.b. Given Name (First Name) N/A

19.c. Middle Name N/A

20. Date of Birth (mm/dd/yyyy) N/A

21. Country of Birth
N/A

22. Relationship N/A

23. Is he or she applying for adjustment of status? ☐ Yes ☐ No

24. Is he or she applying for a visa abroad? ☐ Yes ☐ No

Person 5

25.a. Family Name (Last Name) N/A

25.b. Given Name (First Name) N/A

25.c. Middle Name N/A

26. Date of Birth (mm/dd/yyyy) N/A

27. Country of Birth
N/A

28. Relationship N/A

29. Is he or she applying for adjustment of status? ☐ Yes ☐ No

30. Is he or she applying for a visa abroad? ☐ Yes ☐ No

Person 6

31.a. Family Name (Last Name) N/A

31.b. Given Name (First Name) N/A

31.c. Middle Name N/A

32. Date of Birth (mm/dd/yyyy) N/A

33. Country of Birth
N/A

34. Relationship N/A

35. Is he or she applying for adjustment of status? ☐ Yes ☐ No

36. Is he or she applying for a visa abroad? ☐ Yes ☐ No

Part 8. Contact Information, Certification, and Signature of the Petitioner or Authorized Signatory

Petitioner or Authorized Signatory's Contact Information

1.a. Petitioner's or Authorized Signatory's Family Name (Last Name)

CONFORTO

1.b. Petitioner's or Authorized Signatory's Given Name (First Name)

Julio

2. Petitioner's or Authorized Signatory's Title

N/A

3. Petitioner's or Authorized Signatory's Daytime Telephone Number

+55 41 9 9851-7658

4. Petitioner's or Authorized Signatory's Mobile Telephone Number (if any)

+55 41 9 9851-7658

5. Petitioner's or Authorized Signatory's Email Address (if any)

conforto.julio@gmail.com

Petitioner's or Authorized Signatory's Certification and Signature

If filing this petition on behalf of an organization, I certify that I am authorized to do so by the organization:

a. I reviewed and provided or authorized all of the responses and information in my petition;

b. I understood all of the responses and information contained in, and submitted with, my petition; and

c. All of the responses and information were complete, true, and correct at the time of filing

Furthermore, I authorize the release of any information from any and all of my records as authorized signatory and the petitioner's records that USCIS may need to determine the petitioner's eligibility for an immigration request and to other entities and persons where necessary for the administration and enforcement of U.S. immigration law.

6.a. Petitioner's or Authorized Signatory's Signature

Julio Conforto

6.b. Date of Signature (mm/dd/yyyy) 09/25/2026

Part 9. Interpreter's Contact Information, Certification, and Signature

Interpreter's Full Name

1.a. Interpreter's Family Name (Last Name)

N/A

1.b. Interpreter's Given Name (First Name)

N/A

2. Interpreter's Business or Organization Name

N/A

Interpreter's Contact Information

3. Interpreter's Daytime Telephone Number

N/A

4. Interpreter's Mobile Telephone Number (if any)

N/A

5. Interpreter's Email Address (if any)

N/A

Interpreter's Certification and Signature

I certify, under penalty of perjury, that I am fluent in English and N/A, and I have interpreted every question on the petition and Instructions and interpreted the petitioner's or authorized signatory's answers to the questions in that language, and the petitioner or authorized signatory informed me that they understood every instruction, question, and answer on the petition.

6.a. Interpreter's Signature

N/A

6.b. Date of Signature (mm/dd/yyyy) N/A

Part 10. Contact Information, Certification, and Signature of the Person Preparing this Petition, if Other Than the Petitioner or Authorized Signatory

Preparer's Full Name

1. Preparer's Family Name (Last Name)

HAVERROTH SILVA

Preparer's Given Name (First Name)

Otavio

2. Preparer's Business or Organization Name

HS Law Corp

Preparer's Contact Information

3. Preparer's Daytime Telephone Number

5102419336

4. Preparer's Mobile Telephone Number (if any)

5102419336

5. Preparer's Email Address (if any)

otavio@legalhs.com

Preparer's Certification and Signature

I certify, under penalty of perjury, that I prepared this petition for the petitioner or authorized signatory at their request and with express consent and that all of the responses and information contained in and submitted with the petition are complete, true, and correct and reflects only information provided by the petitioner or authorized signatory. The petitioner or authorized signatory reviewed the responses and information and informed me that they understand the responses and information in or submitted with the petition.

6. Preparer's Signature



Date of Signature (mm/dd/yyyy) 09/25/2026

Part 11. Additional Information

If you need extra space to provide any additional information within this petition, use the space below. If you need more space than what is provided, you may make copies of this page to complete and file with this petition or attach a separate sheet of paper. Type or print your name and A-Number (if any) at the top of each sheet; indicate the **Page Number**, **Part Number**, and **Item Number** to which your answer refers; and sign and date each sheet.

1. Family Name (Last Name): CONFORTO

Given Name (First Name): Julio

Middle Name: N/A

2. IRS EIN ► N/A

3.

Page Number	Part Number	Item Number
4	6	3

Drives the company's strategic direction, product roadmap, and technical methodology for healthcare energy modeling. Manages executive-level hospital relationships, oversees executive team performance, and approves cybersecurity and FDA-aligned compliance standards. Additionally, serves as the primary spokesperson across industry, regulatory, and trade forums.

4.

Page Number	Part Number	Item Number
3	4	6.b

I-907 - Request for Premium Processing Service

5.

Page Number	Part Number	Item Number
N/A	N/A	N/A

N/A

6.

Page Number	Part Number	Item Number
N/A	N/A	N/A

N/A

7.

Page Number	Part Number	Item Number
N/A	N/A	N/A

N/A

Request for Premium Processing Service

Department of Homeland Security
U.S. Citizenship and Immigration Services

USCIS
Form I-907
OMB No. 1615-0048
Expires 02/28/2027

For USCIS Use Only	Request Physically Received by USCIS	Returned	Resubmitted	Receipt
	Date _____ Date _____	Date _____ Date _____	Date _____ Date _____	Action Block
	Remarks			

To be completed by an attorney or accredited representative (if any).	☒ Select this box if Form G-28 or Form G-28I is attached.	Attorney State Bar Number (if applicable)	Attorney or Accredited Representative USCIS Online Account Number (if any)
		343486	007492625438

▶ **START HERE - Type or print in black ink.**

Part 1. Information About the Person Filing This Request

1. Alien Registration Number (A-Number) (if any)
▶ A- N/A

2. USCIS Online Account Number (if any)
▶ 007492625438

3. Family Name (Last Name): HAVERROTH SILVA
Given Name (First Name): Otavio
Middle Name: N/A

4. Company or Organization Named in the Related Case (If filed on behalf of a company or organization)
HS Law Corp

5. Mailing Address

In Care Of Name
Otavio Haverroth Silva

Street Number and Name: Po Box 90487
Apt. ☐ Ste. ☐ Flr. ☐ Number: N/A

City or Town: San Diego
State: CA
ZIP Code: N/A *USPS ZIP Code Lookup*

Province: N/A
Postal Code: N/A
Country: USA

6. Is your current mailing address the same as your physical address? ☒ Yes ☐ No

If you answered "No" to **Item Number 6.**, provide your physical address in **Item Number 7.**

Part 1. Information About the Person Filing This Request (continued)

7. Physical Address

Street Number and Name | Apt. ☐ Ste. ☐ Flr. ☐ | Number

City or Town | State | ZIP Code

Province | Postal Code | Country

8. Request for Premium Processing Service (select **only one** box):

☐ I am the **petitioner** who is filing or has filed a petition eligible for Premium Processing Service.

☒ I am the attorney or accredited representative **for the petitioner** who is filing or has filed a petition eligible for Premium Processing Service. (Complete and submit Form G-28, Notice of Entry of Appearance as Attorney or Accredited Representative, or Form G-28I, Notice of Entry of Appearance as Attorney In Matters Outside the Geographical Confines of the United States, if Form G-28 or Form G-28I has not been submitted with the petition.)

☐ I am the **applicant** who is filing or has filed an application eligible for Premium Processing Service.

☐ I am the attorney or accredited representative **for the applicant** who is filing or has filed an application eligible for Premium Processing Service. (Complete and submit Form G-28 or Form G-28I, if Form G-28 or Form G-28I has not been submitted with the application.)

Part 2. Information About the Request

1. Form Number of Related Petition or Application: I-140

2. Receipt Number of Related Petition or Application: N/A

3. Classification or Eligibility Requested: EB-2 NIW

4. Petitioner or Applicant in the Related Case

Family Name (Last Name): CONFORTO | Given Name (First Name): Julio | Middle Name: N/A

5. Beneficiary in the Related Case

Family Name (Last Name): DE AZEVEDO | Given Name (First Name): Diessica | Middle Name: N/A

6. Name of Point of Contact for the Company or Organization

Family Name (Last Name): N/A | Given Name (First Name): N/A | Middle Name: N/A

Position Title: N/A

7. Company or Organization IRS Employer Identification Number (EIN) (if any): N/A

Part 2. Information About the Request (continued)

8. Address of Petitioner, Applicant, Company, or Organization Named in Related Case

Street Number and Name	Apt.	Ste.	Flr.	Number
42259 Fountain Park Dr N	☒	☐	☐	230

City or Town	State	ZIP Code
Novi	MI	48375

Province	Postal Code	Country
N/A	N/A	USA

Part 3. Requestor's Statement, Contact Information, Declaration, Certification, and Signature

NOTE: Read the **Penalties** section of the Form I-907 Instructions before completing this section.

I understand that U.S. Citizenship and Immigration Services (USCIS) will refund the Premium Processing Service fee to the person listed in **Part 1.** of this request if USCIS does not take an action on the related case within the applicable processing timeframe. I understand that case actions include a referral for investigation of suspected fraud, misrepresentation, or the issuance of an approval notice, a request for evidence, a notice of intent to deny, or a denial notice.

Requestor's Statement

NOTE: Select the box for either **Item A.** or **B.** in **Item Number 1.** If applicable, select the box for **Item Number 2.**

1. Requestor's Statement Regarding the Interpreter

A. ☒ I can read and understand English, and I have read and understand every question and instruction on this request and my answer to every question.

B. ☐ The interpreter named in **Part 4.** read to me every question and instruction on this request and my answer to every question in N/A, a language in which I am fluent, and I understood everything.

2. Requestor's Statement Regarding the Preparer

☐ At my request, the preparer named in **Part 5.**, , prepared this request for me based only upon information I provided or authorized.

Requestor's Contact Information

3. Requestor's Daytime Telephone Number: 5102419336

4. Requestor's Mobile Telephone Number (if any): 5102419336

5. Requestor's Fax Number (if any): N/A

6. Requestor's Email Address (if any): otavio@legalhs.com

Requestor's Declaration and Certification

Copies of any documents I have submitted are exact photocopies of unaltered, original documents, and I understand that USCIS may require that I submit original documents to USCIS at a later date. Furthermore, I authorize the release of any information from any and all of my records that USCIS may need to determine my eligibility for the immigration benefit that I seek.

I furthermore authorize release of information contained in this request, in supporting documents, and in my USCIS records, to other entities and persons where necessary for the administration and enforcement of U.S. immigration law.

Part 3. Requestor's Statement, Contact Information, Declaration, Certification, and Signature (continued)

I certify, under penalty of perjury, that all of the information in my request and any document submitted with it were provided or authorized by me, that I reviewed and understand all of the information contained in, and submitted with, my request and that all of this information is complete, true, and correct.

Requestor's Signature

7. Requestor's Signature 

Date of Signature (mm/dd/yyyy): 10/02/2026

NOTE TO ALL REQUESTORS: If you do not completely fill out this request or fail to submit required documents listed in the Instructions, USCIS may deny your request.

Part 4. Interpreter's Contact Information, Certification, and Signature

Provide the following information about the interpreter.

Interpreter's Full Name

1. Interpreter's Family Name (Last Name): N/A

Interpreter's Given Name (First Name): N/A

2. Interpreter's Business or Organization Name (if any): N/A

Interpreter's Mailing Address

3. Street Number and Name: N/A

Apt. ☐ Ste. ☐ Flr. ☐ Number: N/A

City or Town: N/A

State: N/A

ZIP Code: N/A

Province: N/A

Postal Code: N/A

Country: N/A

Interpreter's Contact Information

4. Interpreter's Daytime Telephone Number: N/A

5. Interpreter's Mobile Telephone Number (if any): N/A

6. Interpreter's Email Address (if any): N/A

Interpreter's Certification

I certify, under penalty of perjury, that:

I am fluent in English and N/A, which is the same language specified in **Part 3.**, **Item B.** in **Item Number 1.**, and I have read to this requestor in the identified language every question and instruction on this request and his or her answer to every question. The requestor informed me that he or she understands every instruction, question, and answer on the request, including the **Requestor's Declaration and Certification**, and has verified the accuracy of every answer.

Part 4. Interpreter's Contact Information, Certification, and Signature (continued)

Interpreter's Signature

7. Interpreter's Signature

Date of Signature (mm/dd/yyyy)

Part 5. Contact Information, Declaration, and Signature of the Person Preparing this Request, if Other Than the Requestor

Provide the following information about the preparer.

Preparer's Full Name

1. Preparer's Family Name (Last Name)

N/A

Preparer's Given Name (First Name)

N/A

2. Preparer's Business or Organization Name (if any)

N/A

Preparer's Mailing Address

3. Street Number and Name

N/A

Apt. ☐ Ste. ☐ Flr. ☐ Number

N/A

City or Town

N/A

State

N/A

ZIP Code

N/A

Province

N/A

Postal Code

N/A

Country

USA

Preparer's Contact Information

4. Preparer's Daytime Telephone Number

N/A

5. Preparer's Mobile Telephone Number (if any)

N/A

6. Preparer's Email Address (if any)

N/A

Preparer's Statement

7.A. ☐ I am not an attorney or accredited representative but have prepared this request on behalf of the requestor with the requestor's consent.

B. ☐ I am an attorney or accredited representative and my representation of the requestor in this case

☐ extends ☐ does not extend beyond the preparation of this request.

NOTE: If you are an attorney or accredited representative, you may need to submit a completed Form G-28 or Form G-28I with this request.

Part 5. Contact Information, Declaration, and Signature of the Person Preparing this Request, if Other Than the Requestor (continued)

Preparer's Certification

By my signature, I certify, under penalty of perjury, that I prepared this request at the request of the requestor. The requestor then reviewed this completed request and informed me that he or she understands all of the information contained in, and submitted with, his or her request, including the **Requestor's Declaration and Certification**, and that all of this information is complete, true, and correct. I completed this request based only on information that the requestor provided to me or authorized me to obtain or use.

Preparer's Signature

8. Preparer's Signature

Date of Signature (mm/dd/yyyy)

Part 6. Additional Information

If you need extra space to provide any additional information within this petition, use the space below. If you need more space than what is provided, you may make copies of this page to complete and file with this petition or attach a separate sheet of paper. Type or print your name and A-Number (if any) at the top of each sheet; indicate the **Page Number**, **Part Number**, and **Item Number** to which your answer refers; and sign and date each sheet.

1. Family Name (Last Name): HAVERROTH SILVA | Given Name (First Name): Otavio | Middle Name: N/A

2. A-Number (if any) ► **A-** N/A

3.A. Page Number: N/A **3.B.** Part Number: N/A **3.C.** Item Number: N/A

3.D.

N/A

4.A. Page Number: N/A **4.B.** Part Number: N/A **4.C.** Item Number: N/A

4.D.

N/A

5.A. Page Number: N/A **5.B.** Part Number: N/A **5.C.** Item Number: N/A

5.D.

N/A

Employment OMB Approval: 1205-0451
Expiration Date: 02/28/2029

Application for Permanent Employment Certification
Form ETA-9089 – Final Determination: Permanent Employment Certification Approval
U.S. Department of Labor

PERMANENT EMPLOYMENT CERTIFICATION APPROVAL

A. U.S. Government Agency Use Only

Pursuant to the provisions of Sections 212(a)(5)(A) of the Immigration and Nationality Act, as amended, the Department hereby certifies that there are not sufficient workers who are able, willing, and qualified, and who will be available at the time of application for a visa and admission into the United States and place needed to fill the job opportunities for which certification is sought, and the permanent employment of the foreign worker will not adversely affect the wages and working conditions of workers in the United States similarly employed.

Therefore, by virtue of the signature below, the Department hereby acknowledges granting certification for the following *Application for Permanent Employment Certification* (Form ETA-9089):

1. DOL Case Number		2. Case Status
3. Employer Legal Business Name		4. Employer FEIN
5. Foreign Worker's Last (family) Name		
6. Foreign Worker's First (given) Name		
7. Foreign Worker's Middle Name(s)		
8. Job Title		
9. SOC Code	10. SOC Occupational Title	
Labor Certification Validity Information		
11. Filing Date	12. Determination Date	13. Expiration Date
14. Department of Labor Office of Foreign Labor Certification *(electronic signature)*		

Pursuant to 20 CFR 656, the aforementioned permanent labor certification is valid only for the job opportunity, the foreign worker, and the area of intended employment specified on the approved Form ETA-9089, including all appendices and any modifications approved by the Department. The aforementioned filing date on this approved *Application for Permanent Employment Certification*, established under 20 CFR 656.17(c), may be used as a priority date by the Department of Homeland Security and the Department of State, as appropriate. This approved *Application for Permanent Employment Certification* will expire if not filed in support of *Immigrant Petition for Alien Workers* (Form I-140) with the Department of Homeland Security by the aforementioned expiration date.

The foreign worker covered by this approved *Application for Permanent Employment Certification* has declared under Section B below, under penalty of perjury, that the foreign worker has read and reviewed every page of Appendix A for this approved Form ETA-9089, takes full responsibility for the accuracy of all information contained therein, and intends to accept permanent employment in the job opportunity specified on the approved Form ETA-9089, including all appendices, offered by the employer if granted a visa or an adjustment of status based on this permanent labor certification.

The employer covered by this approved *Application for Permanent Employment Certification* has declared under Section D below under penalty of perjury that it has read and reviewed every page of this approved Form ETA-9089, including all appendices, and takes full responsibility for the accuracy of all information contained therein and all documentation supporting this approved *Application for Permanent Employment Certification*, including any representations made by the employer's authorized preparer, agent or attorney, as applicable.

Application for Permanent Employment Certification
Form ETA-9089 – Final Determination: Permanent Labor Certification Approval
U.S. Department of Labor

B. Foreign Worker Declaration

I declare under penalty of perjury that I have read and reviewed all information contained in Appendix A of this approved Form ETA-9089, and that to the best of my knowledge the information contained therein is true and accurate. *I understand that to knowingly and/or willfully furnish materially false information in the preparation of this form and any supplement thereto or to aid, abet, or counsel another to do so is a federal offense punishable by fines, imprisonment, or both (18 U.S.C. 2, 1001, 1546, 1621).*

I further declare that I am the person identified under Section A, Fields 5, 6, and 7 above. I did not participate in any activities involving the interviewing or consideration of U.S. workers and intend to accept permanent employment in the job opportunity specified on this approved Form ETA-9089, including all appendices, offered by the employer if granted a visa or an adjustment of status based on this permanent labor certification.

1. Signature *	2. Date Signed *
Julio Confota	09/24/2026

C. Attorney or Agent Declaration

I declare under penalty of perjury that I am an attorney for the employer, or that I am an employee of, or hired by, the employer listed in Section C of the Form ETA-9089, and that I have been designated by that employer in accordance with 20 CFR 656.10(b) to act on its behalf in connection with this application.

I hereby certify that I have provided to the employer the entire Form ETA-9089, appendices, and all supporting documentation for review and to the best of my knowledge the information contained herein is true and accurate, including the employer's declaration regarding activities that I have undertaken on the employer's behalf in connection with this application. *I understand that to knowingly and/or willfully furnish materially false information in the preparation of this form and any supplement hereto or to aid, abet, or counsel another to do so is a federal offense punishable by fines, imprisonment, or both (18 U.S.C. 2, 1001, 1546, 1621).*

1. Attorney or Agent's Last (family) Name *	2. First (given) Name *	3. Middle Initial §
HAVERROTH SILVA	Otavio	N/A
4. Firm/Business Name §		
HS Law Corp		
5. Signature *		6. Date Signed *
		09/24/2026

D. Employer Declaration

I hereby designate the agent or attorney identified in Section C (if any) of the Form ETA-9089 to represent me for the purpose of labor certification and, by virtue of my signature in Field 5 below, **I take full responsibility** for the accuracy of any representations made by my agent or attorney, and my designated preparer identified in Section C above, on every page of the Form ETA-9089, including all appendices, and documentation supporting this application.

I declare under penalty of perjury that I have read and reviewed this application, including every page of the Form ETA-9089, appendices, and supporting documentation, and that to the best of my knowledge the information contained therein is true and accurate. *I understand that to knowingly and/or willfully furnish materially false information in the preparation of this form and any supplement thereto or to aid, abet, or counsel another to do so is a federal offense punishable by fines, imprisonment, or both (18 U.S.C. 2, 1001, 1546, 1621).*

1. Last (family) Name *	2. First (given) Name *	3. Middle Initial §
4. Title *		
5. Signature *		6. Date Signed *

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date:02/28/2029

Application for Permanent Employment Certification
Form ETA-9089 – Appendix A: Foreign Worker Information
U.S. Department of Labor

FOREIGN WORKER INFORMATION

A. Foreign Worker Contact Information

1. Foreign Worker's Last (family) Name * CONFORTO		
2. Foreign Worker's First (given) Name * Julio		
3. Foreign Worker's Middle Name(s) * N/A		
4. Address 1 *(current)* * 42259 Fountain Park Dr N		
5. Address 2 *(apartment/suite/floor and number)* ***§*** Apartment 230		
6. City * Novi	7. State * Michigan	8. Postal Code * 48375
9. Country * EUA	10. Province ***§*** N/A	
11. Date of Birth *(mm/dd/yyyy)* * 07/26/1991	12. Class of Admission * N/A	13. Alien Registration Number (A#) (if applicable) * 0
14. Country of Birth * Brazil		
15. Country of Citizenship or Nationality * Brazil		

B. Foreign Worker Education §

a. Educational Attainment Information 1

1. Education: U.S. Diploma/Degree attained relevant to the job opportunity ☐ None ☐ High School/GED ☐ Associate ☐ Bachelor's ■ Master's ☐ Doctorate (PhD) ☐ Other Degree (JD, MD, etc.)	
1a. If "Other Degree" in question 1, specify the diploma/degree attained N/A	
1b. Specify major(s) and/or field(s) of study (may list more than one related major and more than one field) ELECTRICAL ENGINEERING AND INDUSTRIAL INFORMATICS - CONCENTRATION: BIOMEDICAL ENGINEERING	
1c. Name of Institution that issued the degree/diploma FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ	
1d. Name of Country of institution identified in question 1c Brazil	1e. Month/year attained (*mm/yyyy*) 10/2021

b. Educational Attainment Information 2

1. Education: U.S. Diploma/Degree attained relevant to the job opportunity ☐ None ☐ High School/GED ☐ Associate ■ Bachelor's ☐ Master's ☐ Doctorate (PhD) ☐ Other Degree (JD, MD, etc.)	
1a. If "Other Degree" in question 1, specify the diploma/degree attained N/A	
1b. Specify major(s) and/or field(s) of study (may list more than one related major and more than one field) ELECTRICAL ENGINEERING	
1c. Name of Institution that issued the degree/diploma FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ	
1d. Name of Country of Institution identified in question 1c Brazil	1e. Month/year attained (*mm/yyyy*) 10/2014

***B. Foreign Worker Education** (continued)*

c. Educational Attainment Information 3

1. Education: U.S. Diploma/Degree attained relevant to the job opportunity ☐ None ☐ High School/GED ☐ Associate ☐ Bachelor's ☐ Master's ☐ Doctorate (PhD) ☐ Other Degree (JD, MD, etc.)	
1a. If "Other Degree" in question 1, specify the diploma/degree attained N/A	
1b. Specify major(s) and/or field(s) of study (may list more than one related major and more than one field) N/A	
1c. Name of Institution that issued the degree/diploma N/A	
1d. Name of Country of Institution identified in question 1c N/A	1e. Month/year attained (*mm/yyyy*)

d. Educational Attainment Information 4

1. Education: U.S. Diploma/Degree attained relevant to the job opportunity ☐ None ☐ High School/GED ☐ Associate's ☐ Bachelor's ☐ Master's ☐ Doctorate (PhD) ☐ Other Degree (JD, MD, etc.)	
1a. If "Other Degree" in question 1, specify the diploma/degree attained N/A	
1b. Specify major(s) and/or field(s) of study (may list more than one related major and more than one field) N/A	
1c. Name of Institution that issued the degree/diploma N/A	
1d. Name of Country of Institution identified in question 1c N/A	1e. Month/year attained (*mm/yyyy*)

e. Educational Attainment Information 5

1. Education: U.S. Diploma/Degree attained relevant to the job opportunity ☐ None ☐ High School/GED ☐ Associate's ☐ Bachelor's ☐ Master's ☐ Doctorate (PhD) ☐ Other Degree (JD, MD, etc.)	
1a. If "Other Degree" in question 1, specify the diploma/degree attained N/A	
1b. Specify major(s) and/or field(s) of study (may list more than one related major and more than one field) N/A	
1c. Name of Institution that issued the degree/diploma N/A	
1d. Name of Country of Institution identified in question 1c N/A	1e. Month/year attained (*mm/yyyy*)

C. Foreign Worker Training Qualifications §

a. Training, Certification(s), and/or License(s) Information 1

1. Name of Institution/School/Training provider Siemens Healthineers
1a. Name of training, coursework, experience received Spike Troubleshooting Course

1b. Training/Certifications/licenses attained (if applicable)		
N/A		
1c. Start date of training (*mm/yyyy*)	1d. End date of training (*mm/yyyy*)	1e. Month/year awarded (*mm/yyyy*)
09/2026	09/2026	09/2026

b. Training, Certification(s), and/or License(s) Information 2

1. Name of Institution/School/Training provider		
Siemens Healthineers		
1a. Name of training, coursework, experience received		
MR Imaging Quality WBT Certification		
1b. Training/Certifications/Licenses attained (if applicable)		
N/A		
1c. Start date of training (*mm/yyyy*)	1d. End date of training (*mm/yyyy*)	1e. Month/year awarded (*mm/yyyy*)
N/A	08/2026	08/2026

c. Training, Certification(s), and/or License(s) Information 3

1. Name of Institution/School/Training provider		
Siemens Healthineers		
1a. Name of training, coursework, experience received		
MAGNETOM Cima.X/Cima.X Fit delta training from MAGNETOM Vida/Sola		
1b. Training/certifications/licenses attained (if applicable)		
N/A		
1c. Start date of training (*mm/yyyy*)	1d. End date of training (*mm/yyyy*)	1e. Month/year awarded (*mm/yyyy*)
N/A	04/2026	04/2026

D. Foreign Worker Training Qualifications §

a. Skills, Abilities, and Proficiencies 1

1. Name of Employer/Institution/School/Training Provider	
EF Standard English Test	
1a. Country	1b. State, Territory, or Province
Switzerland	Zurich
1c. Description of specific skills, abilities, and/or proficiencies the foreign worker possesses or attained, which help establish whether the foreign worker meets the requirements identified for the job opportunity *(up to 1,500 characters)*	
English Certificate - C2 Proficient.	

b. Skills, Abilities, and Proficiencies 2

1. Name of Employer/Institution/School/Training Provider	
N/A	
1a. Country	1b. State, Territory, or Province
N/A	N/A
1c. Description of specific skills, abilities, and/or proficiencies the foreign worker possesses or attained, which help establish whether the foreign worker meets the requirements identified for the job opportunity *(up to 1,500 characters)*	
N/A	

E. Foreign Worker Work Experience §

a. Work Experience 1

1. Employer Name			
SIEMENS HEALTHINEERS			
1a. Address 1			
40 Liberty Boulevard			
1b. Address 2			
N/A			
1c. City or Town			1d. Postal Code
Malvern			19355
1e. Country		1f. State, Territory, or Province	
United States of America		Pennsylvania	
1g. Job Title			
CUSTOMER SERVICE ENGINEER 3			
1h. Start Date *(mm/yyyy)*	1i. End Date *(mm/yyyy)*	1j. Present	1k. Hours Worked Per Week
09/2025	Present	■ Yes ☐ No	40

1l. Job Duties: Specify details of the job (work tasks performed, use of tools/equipment, supervision, etc.) (*up to 3,500 characters*)

Serves as a Magnetic Resonance Imaging (MRI) Field Engineer based in Detroit, conducting equipment diagnostics, maintenance, installations, and calibrations under FDA and corporate standards. Collaborates with technical support teams to resolve complex cases and maximize system uptime. Responsibilities include managing regional spare parts inventory, participating in US and European training programs, providing on-call emergency service, and maintaining institutional customer relations while strictly adhering to medical safety and ethical protocols.

For Public Burden Statement, see the Instructions for Form ETA-9089.

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	**Foreign Worker Training Qualifications**

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 4

Name of Institution/School/Training provider: Siemens Healthineers

Name of training, coursework, experience received: MAGNETOM Vida/Sola delta training from MAGNETOM Aera/Skyra

Training/Certifications/Licenses attained (if applicable): N/A

Start date of training: N/A

End date of training: 04/2026

Month/year awarded: 04/2026

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	**Foreign Worker Training Qualifications**

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 5

Name of Institution/School/Training provider: Siemens Healthineers

Name of training, coursework, experience received: Natives/Syngo for MR: Introduction to Numaris/X

Start date of training: N/A

End date of training: 03/2026

Month/year awarded: 03/2026

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date: 02/28/2029

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	**Foreign Worker Training Qualifications**

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 6

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:MR Safety Knowledge Assesssment.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:N/A.

End date of training:02/2026.

Month/year awarded:02/2026.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	**Foreign Worker Training Qualifications**

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 7

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:Magnet Syphon Port De-Ice Virtual Training.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:N/A.

End date of training:02/2026.

Month/year awarded:02/2026.

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date: 02/28/2029

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 8

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:MAGNETOM Verio.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:N/A.

End date of training:02/2026.

Month/year awarded:02/2026.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 9

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:MAGNETOM Spectra.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:N/A.

End date of training:01/2026.

Month/year awarded:01/2026.

For Public Burden Statement, see the Instructions for Form ETA-9089.

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	**Foreign Worker Training Qualifications**

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 10

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:Smart Remote Services Essentials.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:N/A.

End date of training:01/2026.

Month/year awarded:01/2026.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	**Foreign Worker Training Qualifications**

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 11

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:SOMATOM go. Practical Training (Hands-On) CT2GOHO.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:N/A.

End date of training:12/2023.

Month/year awarded:12/2023.

For Public Burden Statement, see the Instructions for Form ETA-9089.

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 12

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:SOMATOM Go Pre-Training (IBT) CT2GOIBT.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:N/A.

End date of training:11/2023.

Month/year awarded:11/2023.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 13

**Name of Institution/School/Training provider: REGIONAL COUNCIL OF ENGINEERING AND AGRONOMY
OF THE STATE OF SÃO PAULO - CREA-SP**

Name of training, coursework, experience received:Professional License

Training/Certifications/licenses attained (if applicable):5071228820

Start date of training:04/2023.

End date of training:N/A

Month/year awarded:04/2023.

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date: 02/28/2029

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 14

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:Service Essentials for SPECT Systems MI1SPEESSE.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:08/2022.

End date of training:08/2022.

Month/year awarded:08/2022.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 15

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:Service Essentials for AX/XP Systems ADVANCED LEVEL XP1XPESADV.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:05/2022.

End date of training:05/2022.

Month/year awarded:05/2022.

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date: 02/28/2029

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 16

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:OCA CT System Essentials for Siemens CTs CT1OCAIBT.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:12/2021.

End date of training:12/2021.

Month/year awarded:12/2021.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 17

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:Native/Syngo User Interface.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:N/A

End date of training:03/2021.

Month/year awarded:03/2021.

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date: 02/28/2029

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 18

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:MAGNETOM Aera/Skyra and Avanto fit Skyra fit Upgrade Course MR5AERASKY.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:06/2019.

End date of training:06/2019.

Month/year awarded:06/2019.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 19

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:MAGNETOM Avanto and Espree System Course MR2AVANTO.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:07/2017.

End date of training:08/2017.

Month/year awarded:08/2017.

For Public Burden Statement, see the Instructions for Form ETA-9089.

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 20

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:Service Essentials for CT CT1CTESSEN

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:02/2016.

End date of training:03/2016.

Month/year awarded:03/2016.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 21

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:MAGNETOM ESSENZA System Training MR2ESSENZA.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:06/2015.

End date of training:06/2015.

Month/year awarded:06/2015.

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date: 02/28/2029

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	**Foreign Worker Training Qualifications**

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 22

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:Service Essentials for MR MR1MRESSEM.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:03/2015.

End date of training:03/2015.

Month/year awarded:03/2015.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	**Foreign Worker Training Qualifications**

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 23

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:SYNGO incl.LEONARDO Workstation XX2SYNGO

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:02/2015.

End date of training:02/2015.

Month/year awarded:02/2015.

For Public Burden Statement, see the Instructions for Form ETA-9089.

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 24

Name of Institution/School/Training provider:Siemens Healthineers.

Name of training, coursework, experience received:MR Safety Knowledge Assessment.

Training/Certifications/licenses attained (if applicable):N/A.

Start date of training:N/A.

End date of training:02/2015.

Month/year awarded:02/2015.

B. Supplemental Information 2 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 25

Name of Institution/School/Training provider: Regional Council of Engineering and Agronomy of the State of Paraná (CREA-PR).

Name of training, coursework, experience received:Professional License

Training/Certifications/licenses attained (if applicable):PR-141994/D.

Start date of training:09/2014.

End date of training:N/A

Month/year awarded:09/2014.

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date: 02/28/2029

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	C	1a. Section Name or Category of Supplemental Information	Foreign Worker Training Qualifications

1b. Supplemental Information. *(up to 1,500 characters)*

Training, Certification(s), and/or License(s) Information 26

Name of Institution/School/Training provider: REGIONAL COUNCIL OF ENGINEERING AND AGRONOMY OF THE STATE OF SANTA CATARINA (CREA-SC)

Name of training, coursework, experience received:Professional License

Training/Certifications/licenses attained (if applicable):198826-6.

Start date of training:09/2014.

End date of training:N/A

Month/year awarded:09/2014.

B. Supplemental Information 2 §

1. Section and Item Number	E	1a. Section Name or Category of Supplemental Information	Foreign Worker Work Experience

1b. Supplemental Information. *(up to 1,500 characters)*

Work Experience 2
Employer Name:COURT OF JUSTICE OF PARANÁ.

Address:Palace of Justice, at Nossa Senhora da Salette Square, Civic Center, Curitiba - Paraná, 80530912, Brazil
Job Title:COURT-APPOINTED TECHNICAL EXPERT.

Start Date - End Date:07/2022 - 08/2025
Hours Worked Per Week: 20

Job Duties: Served as a Court-Appointed Technical Expert in civil courts, analyzing technical issues related to electrical engineering within the scope of legal proceedings. Responsible for preparing impartial reports based on ABNT standards, applicable legislation, and engineering best practices to assist court decisions. Conducted technical inspections, site visits, and evaluations of electrical systems and equipment, identifying failures, construction defects, and nonconformities. Analyzed projects, specifications, contracts, and technical documentation, while addressing technical questions submitted by the parties with technical rigor, ethics, impartiality, and confidentiality.

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date: 02/28/2029

Application for Permanent Employment Certification
Form ETA-9089 – Appendix C: Supplemental Information
U.S. Department of Labor

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	E	1a. Section Name or Category of Supplemental Information	**Foreign Worker Work Experience**

1b. Supplemental Information. *(up to 1,500 characters)*

Work Experience 3
Employer Name:COURT OF JUSTICE OF SANTA CATARINA.

Address:208 Álvaro Millen da Silveira Street, Downtown, Florianópolis - Santa Catarina,88020-901, Brazil.
Job Title:COURT-APPOINTED TECHNICAL EXPERT.

Start Date - End Date:07/2022 - 08/2025
Hours Worked Per Week: 20

Job Duties: Served as a Court-Appointed Technical Expert in civil courts, analyzing technical issues related to electrical engineering within the scope of legal proceedings. Responsible for preparing impartial reports based on ABNT standards, applicable legislation, and engineering best practices to assist court decisions. Conducted technical inspections, site visits, and evaluations of electrical systems and equipment, identifying failures, construction defects, and nonconformities. Analyzed projects, specifications, contracts, and technical documentation, while addressing technical questions submitted by the parties with technical rigor, ethics, impartiality, and confidentiality.

B. Supplemental Information 2 §

1. Section and Item Number	E	1a. Section Name or Category of Supplemental Information	**Foreign Worker Work Experience**

1b. Supplemental Information. *(up to 1,500 characters)*

Work Experience 4
Employer Name:SIEMENS HEALTHINEERS.
Address:3800 Mutinga Avenue, Pirituba, São Paulo - SP,05110-902, Brazil.
Job Title:TECHNICAL SUPPORT ENGINEER

Start Date - End date:11/2019 - 04/2025.
Hours Worked Per Week:40.

Job Duties: Served as a Technical Support Engineer at Siemens Healthineers Brasil from November 2019 to April 2025, based in Curitiba. Responsible for the diagnosis, corrective and preventive maintenance, installation, software upgrades, and calibration of Magnetic Resonance Imaging (MRI) and Computed Tomography (CT) systems across Southern Brazil. Collaborated directly with factory engineering teams in Germany to resolve recurring equipment issues, conducted image quality evaluations, and mentored newly hired engineers. Beginning in August 2022, expanded responsibilities to join the specialized first-level technical support team, providing remote technical support to field engineers nationwide in parallel with field service operations. Maintained strong client relationships and collaborated with commercial teams across pre-sales and post-sales activities.

For Public Burden Statement, see the Instructions for Form ETA-9089.

OMB Approval: 1205-0451
Expiration Date: 02/28/2029

SUPPLEMENTAL INFORMATION

A. Supplemental Information 1 §

1. Section and Item Number	E	1a. Section Name or Category of Supplemental Information	Foreign Worker Work Experience

1b. Supplemental Information. *(up to 1,500 characters)*

Work Experience 5

Employer Name:SIEMENS HEALTHINEERS.

Address:3800 Mutinga Avenue, Pirituba, São Paulo - SP,05110-902, Brazil.

Job Title:JUNIOR TECHNICAL SUPPORT ENGINEER.

Start Date - End date:10/2014 - 10/2019.
Hours Worked Per Week:40.

Job Duties:Served as a Junior Technical Support Engineer at Siemens Healthineers Brasil from October 2014 to October 2019, based in Chapecó. Responsible for the diagnosis, corrective and preventive maintenance, installation, software upgrades, and calibration of Magnetic Resonance Imaging (MRI) and Computed Tomography (CT) systems throughout the Western region of Brazil.

B. Supplemental Information 2 §

1. Section and Item Number		1a. Section Name or Category of Supplemental Information	

1b. Supplemental Information. *(up to 1,500 characters)*

For Public Burden Statement, see the Instructions for Form ETA-9089.

SUMMARY OF COVER LETTER
Petitioner/Beneficiary: CONFORTO, Julio
Type of Petition: I-140, EB-2 National Interest Waiver
Classification Sought: Immigration and Nationality Act § 203(b)(2)(B)(i)

This petition is submitted on behalf of Mr. Julio Conforto, an electrical and biomedical engineer with more than ten years of specialized experience in MRI and CT systems and hospital operations at Siemens Healthineers in Brazil and the United States. His academic credentials have been independently evaluated as equivalent to a U.S. Master of Science in Biomedical Engineering from an accredited institution of higher education.

Mr. Conforto qualifies for EB-2 classification as a member of the professions holding an advanced degree. Under *Matter of Dhanasar*, 26 I&N Dec. 884 (AAO 2016), he seeks a National Interest Waiver to establish and direct IEO Company, a planned Michigan limited liability company headquartered in the Detroit metropolitan area, as Founder, General Manager, and Chief Domain Officer. IEO will develop a national, vendor-neutral SaaS platform using authorized facility-level data to analyze MRI and CT energy consumption, identify avoidable idle-state use and peak-demand exposure, benchmark system performance, and provide actionable reporting to U.S. health-care organizations.

Moreover, Mr. Conforto's proposed endeavor satisfies the three-prong test under *Dhanasar*:

Substantial Merit and National Importance: Mr. Conforto's proposed endeavor is to improve the efficiency and reduce the operating costs of medical imaging services in the United States by helping hospitals and healthcare systems better manage the energy use and operation of MRI and CT equipment. Through practical, data-driven solutions implemented through his U.S. company, his work has the potential to reduce healthcare costs, improve the use of critical medical infrastructure, and strengthen the efficiency and productivity of the U.S. healthcare sector.

Well-Positioned to Advance the Proposed Endeavor: Mr. Conforto combines related advanced education, more than ten years of Siemens medical-imaging experience, current U.S. industry practice, manufacturer training, professional registrations, scientific research, and support from six field experts. Product Potential Issue records show that he reproduced an MRI alarm failure across three systems and escalated it through Siemens's formal process; a later response identified resolution in the VE11E software version. The record also includes peer-reviewed publications, formal recognitions, a structured Business Plan, and a planned founder contribution of up to $120,000 tied to identified property and financial records.

Balancing of Benefits to the United States: As Founder, General Manager, and Chief Domain Officer, Mr. Conforto will direct a multi-client enterprise, not fill a fixed position for one employer. The venture depends on his electrical, biomedical, hospital-engineering, and medical-imaging expertise and will create U.S. jobs in software engineering, health-care operations, energy systems, product, sales, and customer success. Labor certification would not adequately capture his founder-level responsibility for the platform's domain methodology, capital allocation, implementation, and creating the company and its jobs. The United States would benefit even if other qualified workers are available. On balance, the waiver better serves the United States.

Considering the record as a whole, Mr. Conforto qualifies for EB-2 classification and satisfies the prongs for a National Interest Waiver. We respectfully request favorable review and approval of his petition and supporting documentation.

Thank you for your attention to this matter.
Sincerely,



Otavio Haverroth Silva
California Bar No. 343486

August 30, 2026

U.S. Postal Service (USPS):
USCIS
Attn: Premium I-140
P.O. Box 4008
Carol Stream, IL 60197-4008

PREMIUM PROCESSING

Re: Form I-140, Immigrant Petition for Alien Workers, Self-Petition on Behalf of Mr. Julio Conforto, an Electrical and Biomedical Engineering Professional Holding Advanced Degrees, with a Request for a National Interest Waiver, Filed Concurrently with Form I-907, Request for Premium Processing Service

Dear Immigration Officer:

Our firm represents **Mr. Julio Conforto** (the "Petitioner") in this Form I-140 immigrant visa self-petition. Mr. Conforto seeks classification under the employment-based second preference as a member of the professions holding an advanced degree. He also requests, as a matter of USCIS discretion, the waiver of the job-offer and permanent-labor-certification requirements because his proposed endeavor is in the national interest of the United States.

Mr. Conforto is an electrical engineer and medical-imaging technology professional whose career combines electrical engineering, biomedical engineering, complex diagnostic-imaging systems, field operations, fault investigation, and scientific research. An independent academic evaluation found his foreign master's degree equivalent to a U.S. Master of Science in Biomedical Engineering from a regionally accredited institution of higher education in the United States. Since October 2014, he has worked continuously in increasingly responsible technical roles involving magnetic resonance imaging (MRI), computed tomography (CT), and other diagnostic-imaging systems. In 2025, he was transferred to Siemens Medical Solutions USA, Inc. to continue performing his specialized work in the United States, and he currently supports medical-imaging operations in the Detroit, Michigan area. His resume, master's degree, credential evaluation, and core employment records are provided at **Exhibit A, Resume; Exhibit B, Eligibility Criteria; and Exhibit C.II, U.S. Offer Letter from Siemens.**

Mr. Conforto's proposed endeavor is to improve the efficiency and reduce the operating costs of medical-imaging services in the United States by helping hospitals and healthcare systems better understand and manage the energy used by MRI and CT equipment. Drawing on his experience in biomedical engineering, medical imaging, and hospital operations, he intends to develop practical tools that will help healthcare facilities identify unnecessary energy use, reduce avoidable costs, improve the operation and utilization of expensive medical equipment, and make better-informed decisions regarding their imaging infrastructure. **He will implement this endeavor through IEO Company, a planned Michigan business that will develop a software-based solution usable by hospitals regardless of the manufacturer of their imaging equipment**. The Business Plan describes the implementation strategy, service lines, pricing, staffing plan, and five-year projections. (**Exhibit C.I, Business Plan**.)

The company Mr. Conforto will lead is both technically specific and commercially scalable. It begins with an initial Detroit-area deployment strategy, expands through the Midwest during years two and three, and targets national availability in years four and five. The Business Plan (Exhibit C.I) anticipates growth from three U.S. positions in year one to fifteen positions in year five, together with software subscriptions, implementation services, and advisory work for hospitals, outpatient imaging centers, and multi-site health systems. These are projections, not statements that the company, platform, customers, or revenue already exist. The petition relies on them as evidence of a concrete and credible proposed path, considered together with Mr. Conforto's education, more than a decade of directly relevant experience, documented technical results, and current U.S. industry role.

The governing statute permits the Secretary of Homeland Security to waive the job-offer requirement when the waiver is deemed to be in the national interest.1 The implementing regulation authorizes an individual to self-petition for that waiver.2 Under Matter of *Dhanasar*, USCIS may grant a national interest waiver when the record shows, by a preponderance of the evidence, that: (1) the proposed endeavor has substantial merit and national importance; (2) the petitioner is well positioned to advance the endeavor; and (3) on balance, it would benefit the United States to waive the job-offer and labor-certification requirements.3

The petition is supported by the documentary record identified throughout this letter. Any official or peer-reviewed public sources cited below are submitted as legal or contextual support and are not offered to replace evidence of Mr. Conforto's own qualifications or plans. Read together, the evidence shows that it is more likely than not that Mr. Conforto qualifies for EB-2 classification and that his proposed endeavor meets all three elements of the national-interest-waiver framework.

[1] Immigration and Nationality Act section 203(b)(2), 8 U.S.C. section 1153(b)(2), U.S. House of Representatives, Office of the Law Revision Counsel, https://uscode.house.gov/view.xhtml?edition=prelim&num=0&req=granuleid%3AUSC-prelim-title8-section1153 (accessed Aug. 30, 2026).
[2] 8 C.F.R. section 204.5(k), Electronic Code of Federal Regulations, https://www.ecfr.gov/current/title-8/chapter-I/subchapter-B/part-204/subpart-A/section-204.5 (accessed Aug. 30, 2026).
[3] Matter of Dhanasar, 26 I&N Dec. 884, 889-91 (AAO 2016), U.S. Department of Justice, https://www.justice.gov/eoir/page/file/920996/dl.

This organization also preserves chronology. The record begins with formal engineering education, proceeds through more than ten years of progressive post-baccalaureate professional experience with medical-imaging systems in Brazil, documents graduate biomedical-engineering research undertaken during that career, and then shows his transfer into current U.S. operations. As discussed below, Mr. Conforto's proposed endeavor follows that same professional trajectory. His experience is directly aligned with the endeavor and provides the engineering and hospital-operational expertise he will apply through his U.S. company.

The petition therefore rests on four connected propositions:

1. EB-2 threshold eligibility. Mr. Conforto's foreign academic credentials have been independently evaluated as equivalent to a **Master of Science in Biomedical Engineering from an accredited institution of higher education in the United States**. Accordingly, he holds a United States academic or professional degree or a foreign equivalent degree above that of a baccalaureate, and therefore qualifies as a professional holding an advanced degree within the meaning of 8 C.F.R. § 204.5(k)(2). Engineering is a profession, and his degree directly relates to his intended professional activity: applying electrical, biomedical, hospital-engineering, and medical-imaging expertise to the development and implementation of a specialized energy-analytics platform for hospital MRI and CT infrastructure. **(Exhibits A and B.)**

2. Substantial merit and national importance. Mr. Conforto's proposed endeavor is to improve the efficiency and reduce the operating costs of medical-imaging services in the United States by helping hospitals and healthcare systems better understand and manage the energy used by MRI and CT equipment. Drawing on his extensive experience in biomedical engineering, medical imaging, and hospital operations, he intends to develop practical tools that will allow healthcare facilities to identify unnecessary energy use, reduce avoidable costs, improve the operation and utilization of expensive medical equipment, and make better-informed decisions regarding their imaging infrastructure. Mr. Conforto will implement this endeavor through his U.S. company, which will develop a software-based solution that can be used by hospitals and healthcare systems regardless of the manufacturer of their medical-imaging equipment. Because this approach can be replicated across healthcare facilities and geographic markets, his work has the potential to benefit the United States by reducing healthcare operating costs, improving the efficiency and resilience of healthcare infrastructure, promoting more efficient use of energy and medical technology, and strengthening the overall productivity of the U.S. healthcare sector. **(Exhibit C.I, Business Plan and Legal Research)**

3. Mr. Conforto is well positioned to advance his proposed endeavor in the U.S. His advanced education, more than ten years of progressive experience with complex medical-imaging systems, extensive MRI and CT training, current professional experience in the United States, scientific research, and documented technical problem-solving establish a credible foundation for advancing the endeavor. The record includes a contemporaneous Product Potential Issue in which he reproduced and escalated a recurring MRI alarm condition across multiple systems, detailed examples of resolving schedule-threatening equipment failures, employer and customer recognition, peer-reviewed publications, professional engineering registrations, and six first-hand support letters. Considered together with the detailed Business Plan, multidisciplinary staffing model, and identified prospective funding strategy, this evidence establishes a credible bridge between his demonstrated past performance and the future execution of IEO. **(Exhibits A, B, C.I, and C.II.)**

4. The balance favors a waiver. Mr. Conforto's proposed endeavor is a prospective, founder-led effort to develop and implement a multi-client solution for improving the energy and operational efficiency of MRI and CT infrastructure across U.S. healthcare facilities; it is not a fixed position offered by an existing employer. A conventional labor certification would test the availability of U.S. workers for one predetermined job, but it would not meaningfully evaluate his proposed role in establishing and directing the endeavor, defining its medical-imaging and engineering requirements, overseeing product validation and implementation, and assembling the multidisciplinary team needed to advance it. The waiver would not displace U.S. workers. The Business Plan contemplates growth from three U.S. positions in Year 1 to fifteen in Year 5, including complementary roles in software engineering, energy systems, hospital operations, product management, sales, and customer success. The United States would therefore benefit from Mr. Conforto's contribution even if other qualified workers are available, because the endeavor is designed to create additional employment and technical capacity. **(Exhibits C.I and C.II.)**

1. LEGAL STANDARD

1.1 Preponderance of the Evidence

The Self-Petitioner bears the burden of establishing eligibility for the requested immigration benefit. The applicable standard is preponderance of the evidence: the record must demonstrate that each material proposition is more likely than not, or probably true. *Matter of Chawathe*, 25 I&N Dec. 369, 375-76 (AAO 2010).[4] This standard does not require proof beyond a reasonable doubt, nor does it require the evidence to eliminate every theoretical uncertainty. Even where some doubt remains, the burden is satisfied when the quality and weight of the evidence lead to the conclusion that the asserted fact is probably true.

The adjudication does not turn on the number of exhibits submitted. USCIS must evaluate the relevance, probative value, and credibility of each item, both individually and within the context of the record as a whole. Different documents may establish different parts of the same proposition, and no single item is required to prove the entire petition.

[4] Matter of Chawathe, 25 I&N Dec. 369, 375-76 (AAO 2010), U.S. Department of Justice, https://www.justice.gov/eoir/vll/intdec/vol25/3700.pdf.

This petition is organized accordingly. Mr. Conforto's diplomas, transcripts, certified translations, and independent credential evaluation establish the nature and United States equivalency of his electrical- and biomedical-engineering education. Official Siemens Healthineers records and the Brazilian employment record booklet establish more than ten years of progressive professional experience with medical-imaging systems. His United States offer, payroll, and tax records establish his transfer into current U.S. medical-imaging operations. Platform-specific certificates document sustained training across MRI, CT, and related diagnostic technologies.

Contemporaneous technical records, including the Siemens Product Potential Issue, document Mr. Conforto's identification, reproduction, documentation, and escalation of a recurring MRI alarm-system condition. Customer and employer recognitions, scientific publications, research materials, professional engineering registrations, and six detailed support letters provide additional and mutually corroborating evidence of his technical judgment, experimental discipline, and performance in hospital environments. The Business Plan defines the proposed endeavor and implementation path, while the Legal Research independently supports the technical need and recognized energy-management methods on which that plan relies. Property, tax, and financial records corroborate the identified prospective funding strategy. No single document is asked to carry the petition; the evidence is probative because its different sources reinforce the same chronology, qualifications, technical capabilities, and prospective plan.

1.2 Statutory and Regulatory Framework

INA § 203(b)(2)(A) makes employment-based second-preference immigrant visas available to qualified individuals who are members of the professions holding advanced degrees or their equivalent, as well as to individuals of exceptional ability in the sciences, arts, or business whose prospective services satisfy the statutory requirements. INA § 203(b)(2)(B)(i) authorizes the Secretary of Homeland Security to waive the job-offer requirement when the waiver is deemed to be in the national interest. See 8 U.S.C. § 1153(b)(2).

The implementing regulation defines an "advanced degree" as a United States academic or professional degree, or a foreign equivalent degree, above the baccalaureate level. It also provides that a United States baccalaureate degree or foreign equivalent degree followed by at least five years of progressive experience in the specialty will be considered the equivalent of a master's degree. 8 C.F.R. § 204.5(k)(2). The regulation separately defines a "profession" as an occupation listed in INA § 101(a)(32), together with any occupation for which a United States baccalaureate degree or its foreign equivalent is the minimum requirement for entry. Engineers are expressly included among the professions identified in INA § 101(a)(32). See 8 U.S.C. § 1101(a)(32).

To establish classification as a professional holding an advanced degree, the petition must include an official academic record showing that the individual possesses a United States advanced degree or a foreign equivalent degree. 8 C.F.R. § 204.5(k)(3)(i)(A). Alternatively, the regulation permits an official academic record showing a United States baccalaureate degree or foreign equivalent, together with employer letters establishing at least five years of progressive post-baccalaureate experience in the specialty. 8 C.F.R. § 204.5(k)(3)(i)(B). See 8 C.F.R. § 204.5(k).

This petition proceeds under the advanced-degree pathway established by 8 C.F.R. § 204.5(k)(3)(i)(A). Mr. Conforto does not rely on the separate exceptional-ability criteria. His foreign master's degree has been independently evaluated as equivalent to a United States Master of Science in Biomedical Engineering, and his foreign bachelor's degree has been evaluated as equivalent to a United States Bachelor of Science in Electrical Engineering. His intended occupation is an engineering profession, and the advanced education bears a direct relationship to the electrical, biomedical, hospital-engineering, and medical-imaging activity through which he proposes to advance the endeavor.

1.3 The *Dhanasar* Framework

After threshold EB-2 eligibility is established, *Matter of Dhanasar*, 26 I&N Dec. 884, 889-91 (AAO 2016), requires the Self-Petitioner to demonstrate, by a preponderance of the evidence, that:

1. the proposed endeavor has both substantial merit and national importance;

2. the Self-Petitioner is well positioned to advance the proposed endeavor; and

3. on balance, it would be beneficial to the United States to waive the requirements of a job offer and permanent labor certification.

The first prong focuses on the specific proposed endeavor rather than the general importance of the individual's occupation, industry, or field. Substantial merit may arise in business, entrepreneurship, science, technology, health, education, or other areas. It need not be reduced to immediate or quantifiable economic gain. National importance depends principally on the endeavor's potential prospective impact, including broader implications within a field or industry, significant potential to employ U.S. workers, or other substantial positive economic effects. Geographic breadth may be relevant, but it is not dispositive. An endeavor concentrated initially in one region may still possess national importance where its method, results, or prospective implications extend beyond a particular employer, customer, or location. *Id.* at 889-90.

Accordingly, the first-prong inquiry in this petition concerns the particular work Mr. Conforto proposes through Imaging Energy Optimization Company, not the general importance of engineering, medical imaging, hospitals, or energy efficiency. The proposed endeavor is to improve the efficiency and reduce the operating costs of medical imaging services in the United States by helping hospitals and healthcare systems better understand and manage the energy used by MRI and CT equipment. Drawing on his extensive experience in biomedical engineering, medical imaging, and hospital operations, he intends to develop practical tools that will allow healthcare facilities to identify unnecessary energy use, reduce avoidable costs, improve the operation and utilization of expensive medical equipment, and make better-informed decisions regarding their imaging infrastructure.

The second prong shifts the focus from the endeavor to the individual. Relevant considerations include the Self-Petitioner's education, skills, knowledge, and record of success in related or similar efforts; a model or detailed plan for future activities; progress toward the proposed endeavor; and interest or support from potential customers, users, investors, or other relevant persons or entities. *Id.* at 890. These considerations are non-exhaustive, and no single form of evidence is mandatory or independently sufficient.

USCIS does not require proof that an entrepreneurial venture is more likely than not to achieve ultimate commercial success. *Dhanasar* recognizes that innovations and business endeavors may fail despite an intelligent plan and competent execution. The relevant question is whether the total record establishes, by a preponderance of the evidence, that the individual is well positioned to advance the proposed work. A business plan may define the endeavor and its future objectives, but its probative value is strengthened when its central assumptions and the petitioner's proposed role are supported by independent evidence.

The third prong balances the interests ordinarily served by the job-offer and labor-certification requirements against the prospective benefits of permitting the individual to advance the proposed endeavor without those requirements. USCIS may consider whether the nature of the individual's qualifications or proposed endeavor makes a job offer or labor certification impractical; whether the United States would still benefit from the individual's contributions even if other qualified U.S. workers are available; and whether the national interest in those contributions is sufficiently weighty to support forgoing the ordinary process. *Id.* at 890-91.

This inquiry does not require the Self-Petitioner to prove that qualified U.S. workers are unavailable, to compare himself against unidentified U.S. workers, or to establish that denial of the waiver would affirmatively harm the national interest. The question is whether, after considering the particular endeavor, the individual's positioning, the interests protected by labor certification, and the prospective U.S. benefits, the balance favors a waiver.

The current USCIS Policy Manual applies this framework to entrepreneurial endeavors without creating a separate or reduced standard for entrepreneurs. Relevant evidence may include an ownership interest and active central role in the proposed entity, education and professional qualifications, a record of success in related efforts, investment or prospective access to capital, a detailed business plan, progress toward implementation, potential job creation, and interest or support from relevant third parties. At the same time, an ownership interest or proposed executive title rarely establishes eligibility by itself, and generalized assertions concerning entrepreneurship, economic growth, or job creation are insufficient. USCIS evaluates whether the complete record connects the individual's demonstrated qualifications and past performance to the specific activities required by the proposed endeavor. See USCIS Policy Manual, Vol. 6, Pt. F, Ch. 5. This petition follows that approach.

2. THE EB-2 CLASSIFICATION

Professional Holding an Advanced Degree

Mr. Conforto qualifies for EB-2 classification as a member of the professions holding an advanced degree. **An independent academic evaluation concluded that his foreign master's degree is equivalent to a U.S. Master of Science in Biomedical Engineering from a regionally accredited institution of higher education in the United States**. Because this is a foreign equivalent degree above the baccalaureate level, it satisfies 8 C.F.R. § 204.5(k)(2) and (3)(i)(A). Engineering is a profession, and his biomedical-engineering education is directly related to the professional work underlying his proposed endeavor. Although no additional experience showing is required under this pathway, the record also documents more than ten years of progressive post-baccalaureate experience in medical-imaging systems. **(Exhibit B, Master's Degree in Electrical Engineering, Academic Evaluation, and Work Records.)**

Academic Equivalency in the United States

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING

In the Alternative, Exceptional Ability in the Sciences

In the alternative, the record also supports classification based on exceptional ability in the sciences. Mr. Conforto's related academic credentials, more than ten years of specialized experience, professional engineering registrations, comparatively high remuneration, formal recognition, documented technical contributions, scientific research, specialized training, and detailed first-hand testimony satisfy at least the academic-record, experience, professional-license, remuneration, and recognition categories and, considered in the aggregate, demonstrate expertise significantly above that ordinarily encountered in medical-imaging engineering and technical systems. 8 C.F.R. § 204.5(k)(2), (3)(ii). (Exhibits B and C.II.)

3. THE NATIONAL INTEREST WAIVER

3.1 The Proposed Endeavor

Because the first *Dhanasar* prong evaluates the specific proposed endeavor rather than the general importance of an occupation or industry, Mr. Conforto's proposed work must be stated with precision. Through IEO Company, a planned Michigan limited liability company to be headquartered in the Detroit metropolitan area, Mr. Conforto's proposed endeavor is to improve the energy and operational efficiency of medical imaging infrastructure in the United States by developing and implementing data-driven methods to measure, analyze, benchmark, and optimize the energy performance of MRI and CT systems across hospitals and health systems.

Drawing on his expertise in biomedical engineering, medical imaging technology, and hospital operations, he intends to enable healthcare facilities to identify inefficient equipment-use patterns, reduce avoidable energy consumption and demand-related costs, improve utilization of critical medical infrastructure, and make more informed operational and capital-planning decisions. Through his U.S. company, Mr. Conforto will implement this endeavor by developing a vendor-neutral software platform capable of applying these methods across different equipment manufacturers, healthcare facilities, and geographic markets. The endeavor therefore has the potential to advance nationally important U.S. interests by reducing healthcare operating costs, strengthening the efficiency and resilience of healthcare infrastructure, improving the productivity and competitiveness of hospitals and health systems, and promoting more efficient use of energy and high-value medical technology across the U.S. healthcare sector.

IEO Company will operate at the infrastructure and operational-analysis level, without invasive interaction with proprietary equipment software. It is expressly conceived as a software and analytical-services company. It will not manufacture, distribute, install, service, repair, or maintain medical imaging equipment, and it will not sell or resell hardware. This distinction allows the proposed platform to remain vendor-neutral and applicable across hospitals operating heterogeneous MRI and CT fleets. **(Exhibit C.I, Business Plan.)**

The Business Plan identifies four commercial service lines. Their delivery will be supported by a fifth, cross-cutting analytical capability. Together, the proposed endeavor consists of the following five connected components:

1. MRI System Energy-Intelligence Subscription. IEO Company will provide a per-system cloud subscription for MRI systems connected through authorized facility-level energy data feeds. The service will analyze historical and continuous energy consumption, distinguish relevant operating conditions such as idle, scan, and cooling states, and provide daily, weekly, and monthly reporting. It will also identify individual-system contributions to peak electrical demand, support load-shifting analysis for non-emergent imaging activity, and provide planned Imaging Energy Efficiency Index scoring and sustainability-reporting outputs. The service is designed to give hospital decision-makers visibility into energy consumption that conventional whole-building systems do not ordinarily attribute to an individual imaging modality.

2. CT System Energy-Intelligence Subscription. The company will provide an analogous per-system subscription specifically calibrated for the operational characteristics of CT systems. The proposed analytics will examine idle, low-power, and active-scan consumption; support per-exam energy attribution; identify off-hours power-management opportunities; assess peak-demand contribution; and provide CT-specific benchmarking and reporting. The CT subscription will translate modality-level energy information into operational insights for radiology, facilities, biomedical-engineering, and sustainability teams without changing the clinical function of the scanner.

3. Hospital Implementation and Data Integration. For each participating hospital, IEO Company will provide a one-time implementation engagement covering platform configuration, secure integration with authorized facility energy-management or electrical submetering data, identification and tagging of connected MRI and CT systems, baseline measurement, utility and tariff-model calibration, stakeholder training, and operational onboarding. The Business Plan anticipates that a typical implementation will be completed within four to eight weeks of contract execution. This implementation process is intended to establish a reliable measurement foundation before the platform generates recommendations or reports.

4. Modality-Level Benchmarking, Demand Management, and the IEEI Methodology. Across its subscription and advisory services, IEO Company proposes to develop and apply a planned proprietary Imaging Energy Efficiency Index. The IEEI will organize modality-level measurements into a standardized performance indicator capable of comparing systems and, as the customer base grows, identifying peer-performance patterns across facilities. This cross-cutting capability will be combined with demand-charge attribution, peak-load analysis, load-shifting simulations, and system-specific energy reporting. It is not a hardware product and does not directly control medical equipment. Its function is to convert authorized energy and operational data into decision-support information that hospitals can use in managing costs, capacity, and sustainability objectives.

5. Strategic Advisory and Scalable Reporting Services. IEO Company will provide optional advisory services addressing hospital energy-optimization roadmaps, utility-rate and demand-charge analysis, sustainability-reporting alignment, imaging-fleet capital planning, and hospital-specific analytical questions that require human expertise beyond standardized platform outputs. Under the Business Plan, these engagements will be introduced after the company's subscription and customer-success operations have developed. The advisory work will complement, rather than replace, the recurring SaaS model and will help translate the platform's findings into institution-specific operational and financial decisions. (Exhibit C.I, Business Plan.)

Mr. Conforto's role as **Founder, General Manager, and Chief Domain Officer** is the mechanism through which he will advance this endeavor. He will define the company's strategic direction, technical methodology, and product roadmap; translate the operational characteristics of MRI and CT systems into platform requirements; lead the proposed IEEI and energy-modeling methodology; manage senior relationships with hospital engineering, operations, finance, and sustainability personnel; supervise quality and data-handling standards; allocate capital and personnel; and direct the company's multidisciplinary team.

The company's software engineers will be responsible for implementing the cloud architecture, data-ingestion pipeline, analytical engine, simulation modules, customer dashboards, and integration interfaces. Mr. Conforto's function will be to provide the engineering-domain judgment, imaging-system knowledge, operational methodology, and technical leadership necessary to define what the platform measures, how its analytical logic is structured, and how its outputs are evaluated in hospital settings. His role therefore combines founder-level management with specialized technical direction and customer-facing execution. **(Exhibits C.I and C.II.)**

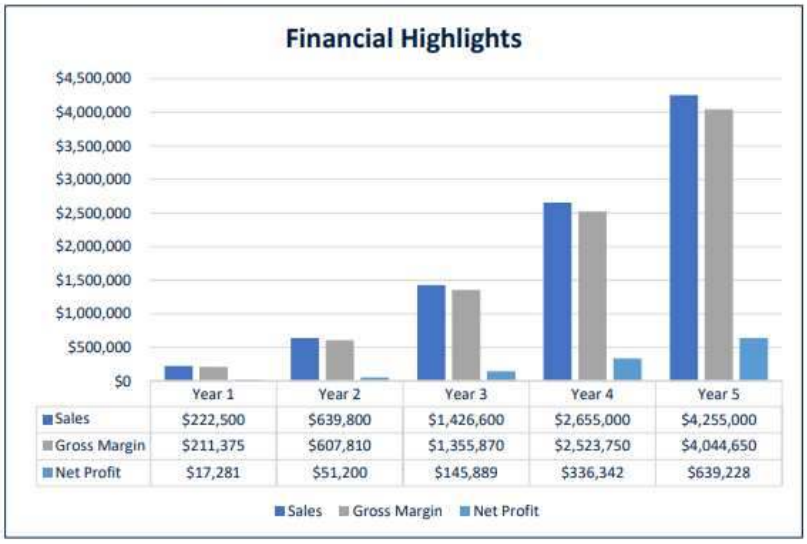
IEO Company will begin in the Detroit metropolitan area and use cloud-based delivery and remote customer engagement to expand across the Midwest and, ultimately, nationwide. The Business Plan contemplates a lean Year 1 team of three: Mr. Conforto, one Senior Software Engineer specializing in backend and data functions, and one Healthcare Operations Analyst. Headcount is projected to increase to five in Year 2, nine in Year 3, twelve in Year 4, and fifteen in Year 5, including Mr. Conforto.

By Year 5, the proposed workforce will include four Senior Software Engineers, two Healthcare Operations Analysts, one Product Manager, four Sales and Business Development professionals, two Customer Success Managers, and one Energy Systems Engineer, in addition to Mr. Conforto. These positions will support software development, healthcare-operational analysis, customer implementation, product management, subscription expansion, customer retention, and utility-tariff and demand-side energy analysis. The proposed expansion is therefore tied to defined operational functions rather than to an unsupported generalized claim of future job creation. **(Exhibit C.I, Business Plan.)**

The financial plan estimates startup requirements of $120,000. The proposed founder contribution is expected to be funded through the planned sale of Mr. Conforto's personal real property in Curitiba, subject to the net proceeds actually realized from that transaction. The Business Plan forecasts revenue of $222,500 in Year 1, $639,800 in Year 2, $1,426,600 in Year 3, $2,655,000 in Year 4, and $4,255,000 in Year 5. Net profit is projected to increase from $17,281 in Year 1 to $639,228 in Year 5, while annual payroll is projected to grow from $145,000 to $1,455,000 over the same period. **(Exhibits C.I and C.II.)**

These financial, staffing, customer-acquisition, and expansion figures are forecasts, not accomplished facts. Their evidentiary value arises from their specificity, their connection to defined subscription pricing and implementation services, their staged relationship to proposed hiring, and their consistency with the evidence documenting Mr. Conforto's education, imaging-system experience, specialized training, technical contributions, professional recognition, current United States employment, and financial planning. The petition therefore does not ask USCIS to assume that the venture has already achieved its projected results. It asks USCIS to evaluate a defined and structured prospective endeavor together with the documented record of the individual who proposes to advance it. **(Exhibits B, C.I, and C.II.)**

2.4.1 Financial Highlights Chart



	Year 1	Year 2	Year 3	Year 4	Year 5
Sales	$222,500	$639,800	$1,426,600	$2,655,000	$4,255,000
Gross Margin	$211,375	$607,810	$1,355,870	$2,523,750	$4,044,650
Net Profit	$17,281	$51,200	$145,889	$336,342	$639,228

IEO Company's Five-Year Financial Highlights, including projected sales, gross margin, and net profit. (Exhibit C.I, Business Plan.)

FIRST PRONG

The Proposed Endeavor Has Substantial Merit and National Importance

Mr. Conforto's proposed endeavor is to improve the energy and operational efficiency of medical imaging infrastructure in the United States by developing and implementing data-driven methods to measure, analyze, benchmark, and optimize the energy performance of MRI and CT systems across hospitals and health systems. Through his proposed endeavor, Mr. Conforto will develop a vendor-neutral software platform capable of applying these methods across different equipment manufacturers, healthcare facilities, and geographic markets, thus advancing nationally important U.S. interests by reducing healthcare operating costs, strengthening the efficiency and resilience of healthcare infrastructure, improving the productivity and competitiveness of hospitals and health systems, and promoting more efficient use of energy and high-value medical technology across the U.S. healthcare sector.

A. BUSINESS PLAN AND DEFINED SCOPE

The **Business Plan, Exhibit C.I**, identifies IEO as a prospective Michigan company headquartered in the Detroit metropolitan area. It proposes four core service lines: (1) MRI system subscriptions; (2) CT system subscriptions; (3) hospital implementation and integration services; and (4) optional strategic advisory services. Proposed pricing is $500 per MRI system per month, $300 per CT system per month, $20,000 per hospital implementation, and $250 per advisory hour. Those details show that the endeavor is not an abstract intention to "work in energy" or "help hospitals." It is a defined technical and commercial model with identified services, users, pricing, rollout, staffing, and financial assumptions.

The platform is described as non-invasive and vendor-neutral. It would operate independently of manufacturers and would not access or alter proprietary medical-device software as part of its stated business model. It also would not manufacture, distribute, install, service, repair, or maintain MRI or CT equipment. That scope matters. IEO's proposed contribution is a software and analytics layer focused on energy visibility and operational decision support across heterogeneous imaging fleets, rather than a competing device-service operation.

The Business Plan identifies hospitals, academic medical centers, community hospitals, outpatient imaging centers, rural and critical-access hospitals, multi-site systems, sustainability networks, and group-purchasing organizations as potential users or channels. It proposes a phased rollout: Detroit in year one, broader Midwest deployment in years two and three, and national expansion in years four and five. The proposed cloud delivery model and multi-facility benchmarking capability are the mechanism through which a locally founded company could produce effects beyond its headquarters.

The implementation concept is also concrete. The plan anticipates identifying and tagging modalities within facility data, establishing baselines, onboarding biomedical-engineering and sustainability personnel, generating daily and weekly reports, attributing demand effects, and comparing results across participating sites. The proposed Imaging Energy Efficiency Index would convert multiple operational measures into a common facility-facing benchmark. Development and validation remain future work, but the plan explains what the product is intended to do and how customers would use it.

The proposed data model is also consistent with established energy-management practice. DOE explains that energy-management platforms may work with information from utility bills, interval meters, submeters, and building-automation systems, depending on the facility and the purpose of the analysis. IEO does not assume that every hospital will provide the same data or that a universal integration method already exists. The Business Plan instead begins with energy information authorized by each participating facility, identifies the relevant modality within that information, and applies baselining, comparison, rate analysis, and reporting. This facility-controlled approach is technically narrower and more credible than a claim that the venture must access proprietary medical-device code.

The proposed workflow supplies a rational connection between data and benefit. A participating facility would first identify relevant MRI and CT systems and the authorized energy-data streams associated with them. IEO would then establish a time-based baseline, distinguish recurring operating patterns, compare those patterns with schedules and applicable utility-rate structures, and flag questions for facility review. Any recommendation would remain subject to clinical availability, equipment requirements, safety, patient access, and local operating judgment. After a facility elects to act, the same data structure could be used to compare later performance with the baseline.

The value of that workflow is not limited to one kind of intervention. At one site, the relevant issue may be unnecessary persistence in a high-power ready state; at another, coincidence of several flexible loads with a demand peak; at another, unexplained divergence between similar units; and at another, no practical change may be justified. A vendor-neutral platform can create value by identifying which situation exists, including when the data do not support a proposed change. This is why the endeavor emphasizes measurement, comparison, and decision support rather than a guaranteed savings percentage.

B. SUBSTANTIAL MERIT: HOSPITAL ENERGY USE AND OPERATING EFFICIENCY

The endeavor has substantial merit in engineering and hospital operations. The U.S. Energy Information Administration reports that health-care buildings accounted for only four percent of U.S. commercial floorspace in the 2018 Commercial Buildings Energy Consumption Survey, yet accounted for approximately nine percent of commercial-building energy consumption. Health-care buildings used 581 trillion British thermal units, including 327 trillion British thermal units of electricity. Inpatient buildings represented only a small share of health-care buildings but accounted for sixty-eight percent of health-care electricity consumption.5 These national data establish that health-care energy management concerns a material commercial-building load.

The EIA data do not isolate MRI or CT consumption, and this petition does not treat them as modality-level proof. Instead, they establish the larger operational setting in which the endeavor would function. Hospitals are complex, continuously operating facilities with multiple energy-intensive systems. A tool that helps facility teams identify and manage a specific, technically complex category of load can contribute to operating-cost control and energy-performance management even when imaging is only one component of the whole-building profile.

Medical-imaging-specific research supplies the next link. In 2023, the National Renewable Energy Laboratory reported that MRI systems can consume more than twice the energy of CT scanners and more than ten times the energy of X-ray systems, and estimated annual consumption on the order of 111,000 kilowatt-hours for MRI and 41,000 kilowatt-hours for CT. The same work identified material consumption outside active scanning and emphasized the need for better measurement and efficiency practices.6 A later NREL review continued to analyze medical-imaging energy use and available efficiency measures.7 These are benchmark estimates, not guarantees about every device or hospital, but they directly substantiate the technical problem IEO proposes to address.

[5] U.S. Energy Information Administration, Commercial Buildings Energy Consumption Survey: Health Care Buildings, https://www.eia.gov/consumption/commercial/pba/health-care.php (accessed Aug. 30, 2026).
[6] National Renewable Energy Laboratory, Medical Imaging Equipment Energy Efficiency, NREL/PR-5500-85658 (2023), https://www.osti.gov/servlets/purl/1968453.
[7] National Renewable Energy Laboratory, Medical Imaging Equipment Energy Efficiency: A Review of Energy Use and Efficiency Measures (2025), OSTI record and full text, https://www.osti.gov/biblio/2483589 and https://www.osti.gov/servlets/purl/2483589.

Peer-reviewed measurement reinforces that the opportunity is operational as well as equipment-based. A Radiology study measured three CT systems and four MRI systems at one university hospital and found substantial electricity consumption outside net scanning time, including pronounced CT idle-state consumption.8 Because the study is site-specific and was conducted outside the United States, this petition does not extrapolate its costs or savings to every U.S. facility. Its relevance is narrower and sounder: it demonstrates through measured data that imaging-system energy profiles include operational states that may be visible to analytics and scheduling decisions.

The U.S. Environmental Protection Agency has likewise created the ENERGY STAR medical-imaging equipment category, effective in 2025, recognizing that medical-imaging equipment can be among a health-care facility's largest plug loads and that energy performance can vary by operating state.9 Version 1.0 currently covers eligible MRI equipment and defines low-power, power-save, ready-to-scan, scan, and non-operating concepts.10 The petition does not overstate that program: current CT products are not covered by the Version 1.0 specification. The program is relevant because it confirms federal recognition that imaging-equipment energy performance is measurable and worthy of standardized attention.

C. SUBSTANTIAL MERIT: ANALYTICS, MEASUREMENT, AND DEMAND MANAGEMENT

IEO's proposed method is consistent with established federal energy-management practice. The Department of Energy describes Energy Management Information Systems as software and related data systems that monitor, analyze, and control building energy use and system performance.[11] DOE identifies functions such as interval-data visualization, benchmarking, anomaly detection, measurement and verification, load profiling, and operational analytics.12 IEO would adapt those general capabilities to a narrower medical-imaging domain in which modality identification, clinical schedules, operating states, and facility demand can be interpreted together.

[8] Heye et al., The Energy Consumption of Radiology: Energy- and Cost-Saving Opportunities for CT and MRI Operation, Radiology (2020), https://pubs.rsna.org/doi/10.1148/radiol.2020192084. The study measured three CT and four MRI systems at one Swiss university hospital; this petition uses it as a documented example, not as a universal U.S. savings estimate.

[9] U.S. Environmental Protection Agency, ENERGY STAR Medical Imaging Equipment, https://www.energystar.gov/products/medical-imaging-equipment (accessed Aug. 30, 2026).

[10] U.S. Environmental Protection Agency, ENERGY STAR Program Requirements Product Specification for Medical Imaging Equipment, Version 1.0, https://www.energystar.gov/sites/default/files/2025-01/ENERGY%20STAR%20Version%201.0%20Medical%20Imaging%20Equipment%20Final%20Specification.1.pdf.

[11] U.S. Department of Energy, Federal Energy Management Program, What Are Energy Management Information Systems?, https://www.energy.gov/cmei/femp/what-are-energy-management-information-systems (accessed Aug. 30, 2026).

[12] U.S. Department of Energy, Federal Energy Management Program, Energy Management Information System Capabilities, https://www.energy.gov/cmei/femp/energy-management-information-system-capabilities (accessed Aug. 30, 2026).

Demand-charge attribution is particularly technical. DOE explains that utility bills can include both consumption charges, measured in kilowatt-hours, and demand charges, measured in kilowatts, and that interval data and the applicable tariff are necessary to evaluate rate options.13 The Business Plan proposes to identify the contribution of imaging loads to facility peaks and to simulate load shifting. The petition does not claim that every hospital pays a demand charge, that every scan can be shifted, or that a uniform savings percentage will result. The merit lies in giving a facility the data needed to determine whether a tariff-specific, clinically permissible opportunity exists.

Measurement and verification are equally important. DOE's guidance explains that credible energy-saving projects require baselines, defined boundaries, measurement periods, and appropriate verification approaches.[14] The proposed platform's baseline measurement, historical analysis, and recurring reporting are consistent with that discipline. Any realized savings would depend on customer data quality, equipment mix, operating schedules, utility rates, clinical needs, and implementation. By preserving those conditions in the analysis, the endeavor can seek useful results without relying on unsupported universal assumptions.

Lawrence Berkeley National Laboratory research involving thousands of buildings found that energy-information and fault-detection analytics can produce measurable savings and operational benefits at the building level.[15] That study does not concern MRI or CT and is not offered as proof of IEO's projected performance. It supports the more modest proposition that analytics-driven energy management is a recognized method for converting interval and systems data into operational action. Mr. Conforto proposes a specialized application of that method to imaging infrastructure.

D. NATIONAL IMPORTANCE: BROADER IMPLICATIONS WITHIN HEALTH-CARE ENERGY MANAGEMENT

The endeavor's national importance arises from its prospective implications, not from the prestige of the engineering field. IEO is designed as a repeatable platform for facilities with different manufacturers, equipment models, utility tariffs, and geographic locations. The same analytic architecture could be deployed across hospital systems rather than recreated as a one-time consultation. Multi-site benchmarking and a common efficiency index could allow organizations to identify outliers, compare similar modalities, prioritize interventions, and measure results across a portfolio. That potential for replication within a national health-care sector distinguishes the endeavor from work confined to one employer's internal operations.

[13] U.S. Department of Energy, Federal Energy Management Program, Evaluating Your Utility Rate Options, https://www.energy.gov/cmei/femp/evaluating-your-utility-rate-options (accessed Aug. 30, 2026).
[14] U.S. Department of Energy, Federal Energy Management Program, Measurement and Verification Options for Federal Energy and Water Saving Projects, https://www.energy.gov/cmei/femp/measurement-and-verification-options-federal-energy-and-water-saving-projects (accessed Aug. 30, 2026).
[15] Lawrence Berkeley National Laboratory, Proving the Business Case for Building Analytics (2020), https://eta.lbl.gov/publications/proving-business-case-building. The study concerns building analytics generally and is used only to support the utility of analytics-based energy management, not to claim MRI- or CT-specific savings.

The Department of Energy's Better Buildings program maintains a health-care sector specifically directed to energy efficiency, cost reduction, resilience, and sharing of replicable solutions among health-care organizations.[16] The EPA likewise provides health-care energy-management resources and a national building-benchmarking framework through ENERGY STAR Portfolio Manager.[17] IEO would not replace whole-building benchmarking. Its proposed contribution is to supply more granular, modality-level information that can complement facility-level management and reporting.

The national scale of hospital operations provides relevant context. CMS reports that U.S. national health expenditures reached approximately $5.3 trillion in 2024, including approximately $1.635 trillion in hospital expenditures.18 These figures do not establish that energy analytics will reduce a particular percentage of health spending. They demonstrate the scale of the health-care delivery system in which hospital operating efficiencies can accumulate across many sites. A vendor-neutral platform capable of serving health systems, outpatient centers, and rural hospitals has a market and operational pathway that is broader than a single facility.

Electricity costs also vary by geography and over time. EIA explains the factors affecting retail electricity prices and publishes national and sectoral price information.[19] That variability strengthens the value of tariff-aware, facility-specific analysis. It also counsels against a generic savings promise. IEO's proposed use of actual customer data, utility structures, and site schedules is the appropriate way to translate a national energy-management concern into decisions that remain specific to each hospital.

The proposed endeavor also has the potential to improve the comparability of imaging-energy information. The NREL literature identifies inconsistent measurement boundaries, differences among devices and modes, and limited standardized reporting as obstacles to comparison. A vendor-neutral data model and a transparent index, if carefully developed and validated, could help facilities organize those differences. That prospective field-level contribution is directly connected to the platform's planned design, not merely to the fact that Mr. Conforto works in a technical occupation.

[16] U.S. Department of Energy, Better Buildings Solution Center, Healthcare Sector, https://betterbuildingssolutioncenter.energy.gov/sectors/healthcare (accessed Aug. 30, 2026).
[17] U.S. Environmental Protection Agency, ENERGY STAR Resources for Healthcare, https://www.energystar.gov/buildings/resources-audience/healthcare, and ENERGY STAR Benchmark Your Building, https://www.energystar.gov/buildings/benchmark (accessed Aug. 30, 2026).
[18] Centers for Medicare & Medicaid Services, National Health Expenditure Data: NHE Fact Sheet, https://www.cms.gov/data-research/statistics-trends-and-reports/national-health-expenditure-data/nhe-fact-sheet (accessed Aug. 30, 2026).
[19] U.S. Energy Information Administration, Electricity Prices and Factors Affecting Prices, https://www.eia.gov/energyexplained/electricity/prices-and-factors-affecting-prices.php (accessed Aug. 30, 2026).

E. THE SPECIFIC ENDEAVOR HAS BROADER PROSPECTIVE IMPLICATIONS

The national-importance showing therefore does not depend on the proposition that a website or cloud product becomes nationally important merely because it can be accessed from multiple states. The broader implication lies in the proposed operational method: applying a consistent, vendor-neutral data structure to a specialized class of hospital loads; comparing recurring patterns across modalities and facilities; evaluating demand consequences under local tariffs; and returning repeatable, measurement-based information to participating health-care organizations. The product is designed to preserve local clinical judgment while making the analytic method replicable.

The Legal Research independently substantiates each part of that method. EIA establishes the scale of health-care building energy use; NREL and the peer-reviewed literature identify MRI and CT consumption and non-scanning operating states; EPA recognizes standardized medical-imaging energy states; and DOE recognizes interval-data analytics, baselining, benchmarking, rate analysis, and measurement and verification as established energy-management functions. **Exhibit C.I, Legal Research.** Those sources do more than show that energy efficiency is generally desirable. They show that the specific inputs, operating questions, and analytic functions identified in the Business Plan correspond to a documented technical need.

USCIS evaluates national importance through the endeavor's potential prospective impact. Current customers completed nationwide adoption, or an already validated index are not prerequisites to that forward-looking inquiry. At the same time, the petition does not use future national availability as a substitute for substance. The prospective impact rests on the combination of a documented national-sector problem, a defined modality-level method, the ability to repeat that method across heterogeneous facilities, and a staged commercial plan for making it available beyond one employer or one hospital.

F. NATIONAL IMPORTANCE: PROSPECTIVE ECONOMIC AND WORKFORCE EFFECTS

Dhanasar recognizes that an endeavor with significant potential to employ U.S. workers or produce other substantial positive economic effects may have national importance. The Business Plan provides a five-year personnel model that grows from three U.S. jobs in year one to fifteen in year five. Planned positions include software engineering, hospital-operations analysis, energy-systems engineering, product management, sales and business development, and customer success. The staffing model appears at **Exhibit C.I, Business Plan**.

The same plan projects annual revenue of $222,500 in year one, $639,800 in year two, $1,426,600 in year three, $2,655,000 in year four, and $4,255,000 in year five, for cumulative projected revenue of approximately $9.2 million. It projects payroll growth from $145,000 in year one to $1.455 million in year five. These are forecasts and depend on successful product development and customer acquisition. They are not offered as independently achieved results or as the sole basis for national importance. Their narrower relevance is to confirm that the endeavor is structured to hire, invest, and serve customers across multiple states rather than function as a vehicle created only for Mr. Conforto's own employment.

The Business Plan also contemplates outside spending on cloud infrastructure, software development, legal and compliance support, marketing, implementation, and professional services. Those expenditures could support additional U.S. economic activity, although the petition does not assign an unsupported multiplier or exact indirect-job count. The direct staffing plan and national customer model are sufficient to show a credible pathway to positive economic effects if the endeavor develops as planned.

Finally, beginning in the Detroit metropolitan area provides a practical launch region while allowing the product to be tested against varied facility and utility conditions. The petition does not depend on labeling a particular neighborhood economically distressed, because the present record does not define a final office address. Nor does it contend that fifteen projected positions, standing alone, establish national importance. The employment and spending projections supplement the stronger showing based on the platform's proposed technical contribution, repeatable multi-facility method, and potential application within a national health-care sector.

G. FIRST-PRONG CONCLUSION

The record therefore establishes substantial merit and national importance. The proposed endeavor addresses a documented category of hospital energy use through a specific analytics method; aligns with established federal approaches to measurement, benchmarking, utility analysis, and verification; is designed for multi-facility and multi-vendor deployment; and carries a detailed path toward U.S. hiring and national expansion. The petition does not rely on obsolete mandates or inflated universal savings claims. It relies on current, carefully bounded evidence that connects the identified need to the precise activity Mr. Conforto proposes.

SECOND PRONG

Mr. Conforto Is Well Positioned to Advance the Proposed Endeavor

The second prong asks whether the beneficiary is well positioned to advance the proposed endeavor. The record supplies multiple, mutually reinforcing forms of evidence: advanced education tied to the technical task; more than a decade of progressive experience in medical imaging; system-specific training; documented fault investigation and service outcomes with broad impact; scientific research and publications; professional registrations; current U.S. industry experience; above-median compensation for the closest occupational comparator; industry recognition by his peers; a specific Business Plan; and a proposed source of founder capital. Success cannot be guaranteed, and *Dhanasar* does not require such a guarantee. The evidence shows a credible capacity to move the endeavor forward, demonstrating that Mr. Conforto is well positioned to advance his proposed endeavor in the United States.

USCIS identifies several potentially relevant considerations under this prong, including education and skills, a record of success in related efforts, a detailed plan, progress toward the endeavor, and interest or support from relevant persons or entities. That list is non-exhaustive. The Policy Manual does not make any single form of evidence a prerequisite or treat any one document as sufficient by itself. It requires a totality-of-the-circumstances assessment of whether the evidence actually submitted, taken together, places the person in a sound position to advance the specific endeavor.

A. EDUCATION, SKILLS, AND SPECIALIZED KNOWLEDGE

Mr. Conforto's academic combination is unusually relevant to the proposed product. His electrical-engineering degree supplies the foundation for energy, power, instrumentation, measurement, control, and systems analysis. His biomedical-engineering master's degree and hospital-engineering research line connect those methods to medical technology and health-care operations. The independent credential evaluation confirms U.S. equivalency. **Exhibit B, Advanced Degree Records and Academic Evaluation.**

The record then shows sustained application of that education. Siemens employed Mr. Conforto in Brazil from October 1, 2014 through April 7, 2025. His Brazilian digital employment record shows that he began as a Junior Technical Assistance Engineer and, by the end of that period, held the position of Technical Support Engineer, including first-level MRI support from October 2022 through April 2025. He subsequently transferred to Siemens Medical Solutions USA, Inc. as a Customer Service Engineer 3 assigned to the Detroit area. The chronology appears in the resume, official employment record, U.S. offer, relocation records, tax documents, and payroll. **Exhibit A, Resume; Exhibit B, Work Records; Exhibit C.II, U.S. Offer Letter from Siemens, U.S. Tax Documents, and U.S. Paychecks.**



SIEMENS Healthineers

To Whom It May Concern,

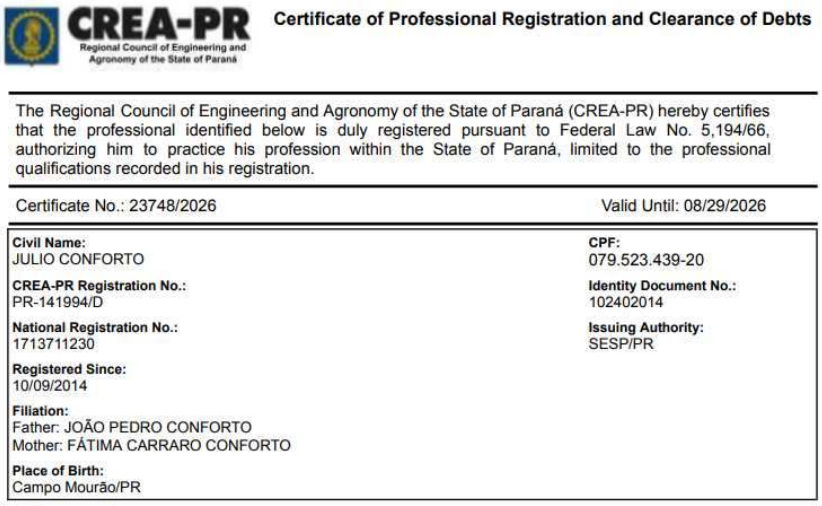
We declare that JULIO CONFORTO, National Employment ID Number N# 2770885 Series **00020/PR**, CPF N# **07952343920** was an employee at Siemens Group, duly registered under the CLT regime from **OCTOBER 01st 2014** to **APRIL 07th 2025**, and his last performed function was of **TECHNICAL SUPPORT ENGINEER SHS.**

We also declare that **JULIO CONFORTO** exercised the following functions as a **TECHNICAL SUPPORT ENGINEER SHS** at our company:

His duties expose him to the physical and operational conditions that IEO proposes to model: MRI and CT system components; power and cooling dependencies; scheduled and unscheduled downtime; preventive and corrective maintenance; software upgrades; calibration; customer workflows; field logistics; remote diagnostics; and the interaction between imaging operations and facility personnel. The endeavor is not a speculative pivot into an unrelated subject. It is a proposed software application built around a domain in which Mr. Conforto has accumulated more than ten years of direct technical experience.

Formal training reinforces that experience. The record includes Siemens training from 2015 through 2026 on Service Essentials for MR and CT; MAGNETOM Essenza, Avanto, Espree, Aera, Skyra, Verio, Spectra, Vida, Sola, and Cima.X; syngo and Numaris/X interfaces; Smart Remote Services; MR safety; magnet syphon and de-icing; CT system essentials and SOMATOM go; and additional diagnostic platforms. **Exhibit C.II, Courses and Certifications**. The certificates are not offered as independent degrees. They show sustained, platform-specific preparation that supports his ability to translate imaging-system operation into product requirements and customer implementation decisions. Those platform-specific and safety courses also support his ability to define IEO's proposed non-invasive, vendor-neutral scope and to translate imaging-system operating conditions into product requirements without altering the medical devices or their proprietary software. **(Exhibits C.I and C.II.)**

Mr. Conforto also holds Brazilian engineering registrations through CREA-PR, CREA-SP, and CREA-SC. **Exhibit C.II, Memberships: CREAs.** A documented technical-responsibility record shows that he accepted a Paraná state-court assignment involving an electrical-equipment report for three consumer units. **Exhibit C.II, Evidence of Original Contributions: TJPR.** The petition confines this claim to the assignment documented in the record and does not infer additional court appointments.



CREA-PR
Regional Council of Engineering and Agronomy of the State of Paraná

Certificate of Professional Registration and Clearance of Debts

The Regional Council of Engineering and Agronomy of the State of Paraná (CREA-PR) hereby certifies that the professional identified below is duly registered pursuant to Federal Law No. 5,194/66, authorizing him to practice his profession within the State of Paraná, limited to the professional qualifications recorded in his registration.

Certificate No.: 23748/2026 — Valid Until: 08/29/2026

Civil Name: JULIO CONFORTO
CPF: 079.523.439-20
CREA-PR Registration No.: PR-141994/D
Identity Document No.: 102402014
National Registration No.: 1713711230
Issuing Authority: SESP/PR
Registered Since: 10/09/2014
Filiation:
Father: JOÃO PEDRO CONFORTO
Mother: FÁTIMA CARRARO CONFORTO
Place of Birth: Campo Mourão/PR

B. DOCUMENTED RECORD OF TECHNICAL PROBLEM SOLVING

The strongest objective example is Siemens Product Potential Issue **ICD06447501 / PM00163006**, opened on December 27, 2018. At Hospital São Vicente de Paulo, Mr. Conforto observed that the MRI alarm box did not alert users when a compressor stopped after a secondary water-flow and pump-overheating condition. He did not treat the event as an isolated repair. He reproduced the behavior on three different MRI systems, gathered video and technical data, and escalated the repeatable condition to Siemens headquarters. Siemens's January 2019 response stated that the issue was resolved in later software version VE11E. The complete record appears at **Exhibit C.II, PPI**.

That episode is directly probative of the capability needed for IEO. A useful energy-analytics platform must distinguish recurring system behavior from anecdote, identify comparable conditions across equipment, collect and organize evidence, communicate with technical stakeholders, and convert observations into an actionable product requirement. The PPI record shows Mr. Conforto performing that sequence in the medical-imaging environment before the present petition was conceived.

The PPI is particularly useful because it contains more than a recommendation letter's retrospective description. The contemporaneous record identifies the issue number, affected platform, systems on which the behavior was reproduced, escalation path, dates, and later-software response. It therefore demonstrates both technical judgment and disciplined documentation. Those capabilities are central to an analytics venture that must define repeatable conditions, avoid conclusions drawn from one anomalous event, and communicate findings to software developers and facility users.

The same record also shows appropriate limits. Mr. Conforto escalated the condition through the manufacturer's formal process rather than presenting himself as the final software authority. IEO likewise would require complementary expertise and defined decision boundaries. The Business Plan anticipates software engineers, an energy-systems engineer, hospital-operations analysts, and customer-success personnel. His position is strongest not because he claims every required skill, but because he has the domain knowledge to frame imaging-specific problems and lead a team that supplies the remaining disciplines.

Customer and colleague evidence supplies additional examples. Tiago Ianiski recounts an overnight database and software recovery that preserved the following day's MRI schedule and describes Mr. Conforto's work on the recurring alarm-system fault. Antonio Ernesto Todeschini describes investigation of a recurring breast-MRI artifact, a helium-leak response, and overnight restoration after a startup-computer failure. Stenio Henrique de Souza describes resolution of an artifact linked to a contrast-injector pump, identification of an improper residual-current breaker configuration associated with recurring trips, and completion of a gradient-coil replacement ahead of the expected schedule. **Exhibit C.II, Letters of Support from Tiago Ianiski, Wilson Jose da Silva, Antonio Ernesto Todeschini, and Stenio Henrique Souza.**

Thiago Spadari Soso describes an emergency involving a 3T MAGNETOM Vida Fit that Mr. Conforto remotely diagnosed and helped restore in approximately one hour, preserving more than twenty scheduled examinations. Daniel de Sousa Albino, who supervised Mr. Conforto in the remote-service center from October 2022 through April 2025, describes repeated resolution of complex MRI issues, support for field engineers, Product Performance Issue work, and formal recognition in 2024. **Exhibit C.II, Letters of Support from Daniel de Sousa Albino and Thiago Spadari Soso.** These accounts are detailed, first-hand, and consistent with the technical records and employment chronology.

The record also contains contemporaneous customer and employer recognitions. A 2016 customer message credited Mr. Conforto's efficiency with preserving a fully booked schedule. A 2023 Siemens recognition concerned a gradient-coil replacement completed ahead of schedule. FY 2022-2023 records document an Uptime Award and a 24.2 percent salary bonus tied to remote-resolution, first-visit-resolution, service, and rotation metrics. Later U.S. records include thanks for early-morning work supporting a hospital's surgical schedule and for weekend and understaffed-market coverage. **Exhibit C.II, Siemens Recognition and Client Recognitions.** Taken together, these contemporaneous records corroborate the operational value of Mr. Conforto's work and the recognition it received from Siemens and its customers.

C. SCIENTIFIC RESEARCH AND QUANTITATIVE METHOD

Mr. Conforto's research record shows that his engineering practice extends beyond field service. He is a coauthor of a 2021 *Nature Communications* article on high-efficiency blue organic light-emitting diodes and a 2022 *Cell Reports Physical Science* article on photonic nanostructures for perovskite solar cells. The contribution statements identify him as performing device experiments. The articles appear at **Exhibit C.II, Published Material: Articles**. The petition does not rely on unverified citation totals; authorship and experimental contribution are established by the papers themselves.

His earlier robotics work included FPGA-based speed and position control, conference presentations, a 2011 honorable mention, and a $500 IEEE travel grant for an accepted robotics paper. **Exhibit C.II, Honors and Recognitions; Courses and Certifications; and Reviews, Articles, and Reports.** The petition does not overstate selectivity or field-wide influence. The value of this evidence under the second prong is cumulative: it documents long-standing work in data, control, experimentation, and technical communication.

The master's research and Brazilian Congress of Biomedical Engineering paper add a hospital-engineering dimension. Mr. Conforto designed a controlled comparison of dental milling equipment, prepared repeatable geometries and samples, used calibrated measurement, and analyzed dimensional performance. **Exhibit C.II, XXVII Brazilian Congress in Biomedical Engineering and Master's Dissertation.** These methods are relevant to the future task of creating baselines, comparing modalities and facilities, and validating an energy-efficiency index.

Together, the research and professional records show complementary kinds of preparation. The scientific work demonstrates experimental discipline; the field record demonstrates operational judgment under real hospital constraints; and the remote-support work demonstrates the ability to compare cases across sites. IEO's proposed product requires precisely that combination of measurement, system knowledge, and scalable interpretation.

D. CURRENT U.S. EMPLOYMENT, MARKET POSITION, AND COMPENSATION EVIDENCE

Mr. Conforto's 2025 transfer into Siemens's U.S. operations adds current familiarity with U.S. hospital workflows, service expectations, customer coordination, and regional operating conditions. The May 27, 2025 offer identifies the position as Customer Service Engineer 3, assigned remotely to the Detroit area, with base compensation of $43.27 per hour and a five-percent target incentive. Payroll records show regular biweekly compensation and overtime after the transfer. **Exhibit C.II, U.S. Offer Letter from Siemens and U.S. Paychecks.**

The May 27, 2025 offer, relocation, tax, and payroll records provide objective third-party evidence that Mr. Conforto's specialized medical-imaging expertise is already being utilized in the United States. They also place him in the Detroit market identified for the initial launch of the endeavor and provide current exposure to U.S. hospital workflows, service expectations, documentation practices, and customer coordination. The petition does not characterize Siemens as a partner, customer, investor, or supporter of IEO, and the offer does not itself constitute a commitment by Siemens to advance the proposed venture. Its probative value is narrower but significant: it independently corroborates Mr. Conforto's current U.S. engagement in the same specialized field and strengthens the connection between his prior record and the endeavor he proposes. **(Exhibit C.II, U.S. Offer Letter from Siemens, Relocation Records, U.S. Tax Documents, and U.S. Paychecks.)**

For an official compensation comparison, the closest documented occupational category is *ONET's Medical Equipment Repairers, SOC 49-9062.00. O*NET describes work that installs, maintains, calibrates, and repairs patient-care equipment and lists titles that include X-Ray Service Engineer.20 Detroit-area O*NET wage data report a median of approximately $60,420, a seventy-fifth percentile of approximately $76,950, and a ninetieth percentile of approximately $99,050. Mr. Conforto's $43.27 hourly base annualizes to approximately $90,002 at 2,080 hours, placing his base compensation above the local seventy-fifth percentile and below the ninetieth percentile for that comparator.21

The Bureau of Labor Statistics independently describes medical-equipment repairers as professionals who install, maintain, and repair equipment used in patient care and provides national occupational context.22 This comparison is supplemental and is not offered as a substitute for the remaining exceptional-ability evidence. Nor does it compare Mr. Conforto to electrical or biomedical engineers whose job duties and wage distributions differ. It provides an objective indication that a U.S. employer values his directly relevant medical-equipment expertise at a relatively high level within the closest local service occupation.

[20] O*NET OnLine, Medical Equipment Repairers, SOC 49-9062.00, National Center for O*NET Development for the U.S. Department of Labor, https://www.onetonline.org/link/summary/49-9062.00 (accessed Aug. 30, 2026).
[21] O*NET OnLine, Local Wages for Medical Equipment Repairers in Michigan, including the Detroit-Warren-Dearborn metropolitan area, https://www.onetonline.org/link/localwages/49-9062.00?st=MI (accessed Aug. 30, 2026).
[22] U.S. Bureau of Labor Statistics, Occupational Outlook Handbook, Medical Equipment Repairers, https://www.bls.gov/ooh/installation-maintenance-and-repair/medical-equipment-repairers.htm (accessed Aug. 30, 2026).

E. LETTERS OF SUPPORT FROM FIELD EXPERTS

The six support letters are probative because they identify each writer's basis of knowledge and describe concrete events rather than offering only conclusions. They are also corroborative. The petition does not ask USCIS to accept praise in place of records; it asks USCIS to consider how the witnesses explain the technical significance and operational context of documents that otherwise might appear as isolated certificates, tickets, or recognitions.

- **Tiago Ianiski, Electrical and Electronic Engineer and Clinical-Engineering Manager:** worked directly with Mr. Conforto from 2015 through 2019. He describes overnight software and database restoration, investigation of the repeatable MRI alarm condition, escalation through Siemens's Product Potential Issue process, and an approach centered on root cause and uptime. **Exhibit C.II, Letter of Support from Tiago Ianiski.**
- **Wilson José da Silva, UTFPR Professor and Graduate Advisor:** supervised Mr. Conforto's graduate work and describes his integration of a demanding professional schedule with biomedical-engineering research, experimental design, thesis work, and publications. Where the letter's dates differ from official academic records, this petition relies on the official transcript and diploma dates. **Exhibit C.II, Letter of Support from Wilson Jose da Silva.**
- **Antonio Ernesto Todeschini, Physician and Hospital Founder:** observed Mr. Conforto's work in a clinical setting and describes resolution of an artifact problem, a helium-related event, and a schedule-threatening startup failure. His account illustrates the relationship between technical diagnosis, clinical continuity, and customer communication. **Exhibit C.II, Letter of Support from Antonio Ernesto Todeschini.**
- **Stenio Henrique de Souza, Physician:** describes three distinct imaging-system problems, including an external pump associated with an artifact, electrical-protection configuration associated with recurrent trips, and a gradient-coil replacement completed faster than expected. **Exhibit C.II, Letter of Support from Stenio Henrique Souza.**
- **Daniel de Sousa Albino, Siemens Remote Services Center Leader:** supervised Mr. Conforto from October 2022 through April 2025 and describes complex remote MRI support, field-engineer coverage, Product Performance Issue activity, and recognition for contribution to customer support. **Exhibit C.II, Letter of Support from Daniel de Sousa Albino.**
- **Thiago Spadari Soso, Radiology Technologist:** describes direct experience with Mr. Conforto since 2017, including rapid remote response to an emergency involving a 3T system that preserved more than twenty scheduled examinations, together with training and knowledge transfer to clinical staff. **Exhibit C.II, Letter of Support from Thiago Spadari Soso.**

Viewed together, the letters confirm a consistent professional pattern across engineers, supervisors, physicians, and technologists: Mr. Conforto understands technically complex imaging systems, investigates causes rather than symptoms, communicates across disciplines, protects clinical continuity, and transfers knowledge. Those are directly relevant to founding and leading a product that must convert engineering data into decisions usable by hospital facility, imaging, biomedical-engineering, sustainability, and financial personnel.

F. FUTURE PLAN, IMPLEMENTATION PATH, AND RESOURCES

The Business Plan defines the product, user groups, data and reporting functions, proposed price structure, sales channels, geographic sequence, staffing, management responsibilities, annual projections, break-even assumptions, and future funding strategy. **Exhibit C.I, Business Plan.** USCIS recognizes that a business plan is useful to explain future objectives but should be evaluated with independent evidence. Here, the plan is not standing alone: The Legal Research supports its technical premises, while Mr. Conforto's proposed role is supported by his degrees, employment history, platform training, PPI record, customer recognitions, scientific work, current U.S. employment, and detailed support letters.

The plan assigns Mr. Conforto a role suited to his background: founder, chief executive, and chief domain officer. He would define modality-specific requirements, validate engineering logic, guide product development, lead hospital implementation strategy, and recruit complementary professionals. The staffing plan appropriately recognizes that he will not build a national SaaS venture alone. Software engineers would build the platform; an energy-systems engineer and hospital-operations analysts would strengthen measurement and implementation; product, sales, and customer-success personnel would support commercialization and adoption.

That division of responsibilities directly addresses the relationship between his past record and the future SaaS venture. The evidence need not show that Mr. Conforto personally performs every software-development, cybersecurity, utility-rate, sales, or compliance function. His proposed central contribution is the domain layer that makes those functions useful in medical imaging: identifying relevant modality behavior, translating hospital operating conditions into product requirements, defining clinically bounded analytic questions, testing whether recurring patterns are technically meaningful, and communicating results across engineering and clinical stakeholders. The PPI and service records document that he has already performed the analogous work of identifying patterns, reproducing conditions, organizing evidence, escalating findings, and collaborating with specialized teams.

The plan anticipates an initial founder contribution of up to $120,000. The record includes title and a March 2026 appraisal for Mr. Conforto's Curitiba apartment, together with Brazilian tax returns and mortgage information. **Exhibit C.II, Property Appraisal in Curitiba and Brazilian Individual Income Tax Returns.** Because the property remains financed, the petition accurately treats the contribution as a planned source of capital subject to sale, outstanding debt, transaction costs, taxes, exchange rates, and net proceeds. The record therefore does not present $120,000 as cash already liquid or guaranteed. The financial documents have the more measured probative value of corroborating that the funding strategy is connected to an identified asset and disclosed financial history rather than being an unsupported statement in the plan.

Mr. Conforto's present L-1B employment is likewise treated accurately. IEO is a prospective endeavor to be pursued only under appropriate employment authorization and in compliance with applicable obligations. The petition does not state that he is presently operating IEO, receiving revenue, serving customers, or using any employer-owned technology or confidential information. The Business Plan's vendor-neutral, non-invasive scope provides a distinct product concept, and future implementation must continue to respect proprietary rights and lawful authorization.

Mr. Conforto's current location in metropolitan Detroit corresponds to the launch region identified in the Business Plan. More importantly, his present U.S. role provides current experience with U.S. hospital service expectations, customer coordination, documentation, and implementation conditions in the market where the endeavor is intended to begin. His C2-level English certificate supplies additional, though supplemental, support for the communication demands of product leadership and technical translation. **Exhibit C.II, U.S. Offer Letter from Siemens, U.S. Paychecks, and Evidence of English Proficiency.**

G. THE TOTAL RECORD ESTABLISHES POSITION, NOT GUARANTEED SUCCESS

The petition does not represent that IEO is incorporated, that a product has been completed, or that a pilot, letter of intent, investor commitment, or customer contract already exists. Those are forms of evidence USCIS may consider, but neither Dhanasar nor the Policy Manual converts each one into a mandatory filing prerequisite. Entrepreneurial endeavors may be approved without proof that they are more likely than not to achieve ultimate commercial success, provided the record establishes that the individual is well positioned to advance the work.

The categories present here are substantial and mutually corroborating. The academic records establish the engineering foundation; the employment and training records establish more than a decade of specialized imaging knowledge; the contemporaneous PPI establishes repeatable fault investigation and translation of field observations into a software-related resolution; customer and employer records establish performance under hospital constraints; research establishes quantitative and experimental discipline; letters explain the technical significance of documented events; the Business Plan defines the implementation path; and the property and tax documents corroborate an identified funding strategy. The second prong asks whether that combined record makes advancement of the endeavor more probable than mere aspiration. It does.

H. SECOND-PRONG CONCLUSION

By a preponderance of the evidence, Mr. Conforto is well positioned to advance IEO. His qualifications are not merely impressive in the abstract; they map to the endeavor's actual requirements. Electrical and biomedical engineering support measurement and modeling. Medical-imaging field and remote-service experience support modality-specific interpretation and hospital implementation. Research supports experimental validation. Customer and supervisory records support operational credibility. The Business Plan supplies a concrete commercial path and a team structure that complements his strengths. This is the integrated showing contemplated by Dhanasar.

THIRD PRONG

On Balance, It Would Benefit the United States to Waive the Job-Offer and Labor-Certification Requirements

The third prong weighs the interests served by labor certification against the prospective benefits of permitting Mr. Conforto to advance his endeavor without being confined to a permanent job offer. The ordinary process protects U.S. workers by testing a specific employer's labor need and the availability of able, willing, qualified, and available workers. This petition does not minimize that interest. It shows why the process is a poor fit for the particular founder-led endeavor and why the waiver would produce additive U.S. benefits rather than displace U.S. labor.

A. IMPRACTICABILITY OF A CONVENTIONAL LABOR CERTIFICATION

IEO is a proposed venture that Mr. Conforto intends to establish and direct, not a fixed vacancy offered by an unrelated employer. A conventional labor certification would require an employer, a permanent position, defined minimum requirements, a prevailing wage, and recruitment to test the availability of U.S. workers for that position. Those tools can evaluate who should fill an existing job. They cannot readily evaluate whether a prospective founder should be permitted to create a new company, assemble a multidisciplinary team, develop a product, obtain customers, and assume entrepreneurial risk.

Dhanasar expressly revised the former framework in part because the prior test was ill suited to self-employed individuals and entrepreneurs. The current framework permits USCIS to consider whether the nature of the endeavor makes a job offer or labor certification impractical. USCIS's entrepreneur guidance likewise recognizes the national-interest waiver as an immigrant pathway in which an entrepreneur may self-petition when the statutory and discretionary requirements are satisfied.23

The current Policy Manual applies the same balance more specifically. It explains that, where an entrepreneur will be self-employed in a manner that generally does not adversely affect U.S. workers, or will establish or own a business that provides jobs for U.S. workers, the labor-certification process may offer comparatively little benefit. That consideration does not grant entrepreneurs an automatic waiver. It does, however, fit the structure proposed here: Mr. Conforto seeks permission to contribute as the founder and engineering-domain leader of an additional enterprise, while the plan assigns complementary software, energy, operations, product, sales, and customer functions to other workers.

[23] USCIS, Immigrant Pathways for Entrepreneur Employment in the United States, https://www.uscis.gov/working-in-the-united-states/entrepreneur-employment-pathways/immigrant-pathways-for-entrepreneur-employment-in-the-united-states (accessed Aug. 30, 2026).

The founder role also cannot be reduced to a generic job title. Mr. Conforto's proposed contribution combines domain architecture, modality-level engineering judgment, hospital implementation strategy, product validation, business leadership, and recruitment of specialists. An advertisement for a conventional engineering or management position would test whether another worker could perform listed duties for an employer. It would not test whether Mr. Conforto's specific past record and planned investment can be mobilized to create IEO as an additional U.S. enterprise.

Nor would certification for his existing service-engineer role address the proposed endeavor. His present U.S. employment is evidence of current domain practice, but the NIW request is not a request to bypass recruitment for that employer's position. The proposed endeavor is the creation and development of a separate future analytics venture. Conflating the two would evaluate the wrong job and the wrong prospective impact. The waiver permits USCIS to assess the founder activity that the petition actually defines.

In addition, the waiver does not excuse IEO from employing U.S. workers on lawful terms. As the venture grows, its ordinary software, energy, operations, sales, and customer-success positions would remain subject to the same labor and employment laws as other U.S. jobs. The waiver concerns Mr. Conforto's permanent-immigration path and founder contribution, not a categorical exemption for future hires.

B. THE UNITED STATES WOULD BENEFIT EVEN IF OTHER QUALIFIED WORKERS ARE AVAILABLE

The third prong does not require Mr. Conforto to prove that no U.S. worker could work in medical imaging, energy analytics, software, or hospital operations. The United States may benefit from his contribution even when qualified workers exist. His proposed venture is designed to combine and employ those workers. By year five, the Business Plan anticipates four senior software engineers, two hospital-operations analysts, an energy-systems engineer, product management, four sales and business-development employees, two customer-success employees, and Mr. Conforto in the founder and domain-leadership role.

Those positions are complementary. Software engineers bring software architecture and cybersecurity expertise. Energy professionals bring utility, metering, and verification knowledge. Hospital-operations analysts bring implementation and workflow experience. Mr. Conforto contributes the link between imaging-system physics, clinical operations, field service, system states, and the practical questions the product must answer. Waiving labor certification for him would facilitate, rather than prevent, the engagement of U.S. professionals with those complementary skills.

The venture's potential benefit also extends to customer organizations. If successfully developed, a hospital could gain a vendor-neutral way to compare different imaging modalities and facilities, investigate idle and demand patterns, document baselines, and prioritize operational changes. Because actual decisions would remain facility-specific and clinically constrained, the platform would support staff rather than replace clinical or engineering judgment. The national benefit lies in additional analytic capacity distributed across participating organizations.

Mr. Conforto's documented record makes his contribution more than interchangeable labor. He combines a U.S.-equivalent advanced degree in biomedical engineering, an electrical-engineering foundation, more than ten years with MRI and CT systems, a reproducible-fault investigation that reached a software solution, hospital-schedule recoveries, current U.S. practice, and experimental research. The petition does not claim that no one else possesses any of those skills. It shows that his particular combination can add value to an endeavor designed to create further U.S. work.

C. THE NATIONAL INTEREST SUPPORTS FORGOING THE ORDINARY PROCESS

The relevant national interests are durable and documented. EIA data show the material energy use of health-care buildings. NREL and EPA sources identify medical-imaging equipment as an important category for energy measurement and efficiency. DOE programs recognize interval-data analysis, benchmarking, measurement and verification, rate analysis, and replicable health-care energy solutions. IEO proposes to connect those established methods to a technically specialized load and make the resulting analysis available across facilities.

This does not mean every claimed benefit is urgent in an emergency sense, and the petition does not rely on that characterization. The balance favors a waiver because the problem is ongoing, the proposed method can be scaled, the founder's preparation is directly relevant, and requiring a fixed job offer would divert the petition from the entrepreneurial activity whose prospective impact forms the basis of the request. The waiver permits evaluation of the endeavor on its actual terms.

Timely development also matters in a practical, measured way. The federal ENERGY STAR medical-imaging category took effect in 2025, NREL's research agenda continues to identify measurement and standardization needs, and health-care organizations continue to manage variable electricity prices and complex facility loads. A new U.S. venture focused on modality-level analytics can contribute to that developing ecosystem. The petition does not promise immediate nationwide adoption; it proposes a staged route from Detroit to the Midwest and then broader national availability.

The waiver also supports a favorable economic balance. The company is designed to create direct U.S. jobs, purchase U.S. services, and build a domestic software product. Its customers would decide whether the service produces facility-specific value, and its revenue would depend on that decision. The projected jobs and revenue are not treated as guaranteed outcomes; they show the direction and structure of the proposed economic activity. This market discipline, combined with the planned founder investment, places entrepreneurial risk on the venture while preserving potential benefits for U.S. workers and health-care organizations.

D. FAVORABLE EXERCISE OF DISCRETION

The record supports a favorable exercise of discretion. Mr. Conforto was lawfully admitted in L-1B status and is employed by the petitioning record's identified U.S. company. His tax and payroll documents are included. **Exhibit C.II, U.S. Tax Documents and U.S. Paychecks; Exhibit D, Personal Documents.** The endeavor is presented as future activity subject to appropriate authorization. Nothing in this request asks USCIS to approve unauthorized current work or to disregard contractual, intellectual-property, corporate, tax, licensing, privacy, cybersecurity, or medical-device obligations that may apply to future implementation.

The petition is also candid about the evidentiary posture. It relies on current official sources rather than obsolete mandates; distinguishes team recognition from individual achievement; uses verified publications without unsupported citation counts; compares compensation to the closest official occupation and geography; treats the apartment as a prospective and encumbered funding source; and identifies the company's figures as projections. These limitations reflect careful proof, not a lack of merit. They allow USCIS to evaluate what the record actually establishes under the preponderance standard.

E. THIRD-PRONG CONCLUSION

On balance, the United States would benefit from waiving the job-offer and labor-certification requirements. The process is impractical for the founder-led activity proposed; the waiver would facilitate a venture intended to create U.S. jobs rather than fill and remove one job from the labor market; qualified U.S. workers remain potential employees and collaborators; and the endeavor addresses documented national energy-management concerns through a specific, scalable technical method. The third prong is therefore satisfied.

FINAL CONSIDERATIONS – CONCLUSION

The evidence, considered in its totality, establishes by a preponderance that Mr. Julio Conforto qualifies for EB-2 classification as a member of the professions holding advanced degrees and that his request for a national interest waiver satisfies **Matter of Dhanasar**.

1. **Threshold EB-2 eligibility:** Mr. Conforto possesses foreign degrees independently evaluated as equivalent to a **U.S. Master of Science in Biomedical Engineering** from an accredited institution of higher education. His intended occupation is an engineering profession, and the advanced degree relates directly to the engineering-intensive activity through which he will advance the endeavor. **Exhibit B, Advanced Degree Records and Academic Evaluation.**

2. **Substantial merit and national importance:** Mr. Conforto's proposed endeavor is to improve the energy and operational efficiency of medical imaging infrastructure in the United States by developing and implementing data-driven methods to measure, analyze, benchmark, and optimize the energy performance of MRI and CT systems across hospitals and health systems. He intends to enable healthcare facilities to identify inefficient equipment-use patterns, reduce avoidable energy consumption and demand-related costs, improve utilization of critical medical infrastructure, and make more informed operational and capital-planning decisions. Through his U.S. company, Mr. Conforto will implement this endeavor by developing a vendor-neutral software platform capable of applying these methods across different equipment manufacturers, healthcare facilities, and geographic markets and support advance nationally important U.S. interests by reducing healthcare operating costs, strengthening the efficiency and resilience of healthcare infrastructure, improving the productivity and competitiveness of hospitals and health systems, and promoting more efficient use of energy and high-value medical technology across the U.S. healthcare sector. **Exhibit C.I, Business Plan and Legal Research.**

3. **Well positioned:** Mr. Conforto brings directly relevant advanced education, more than ten years of progressive post-baccalaureate medical-imaging experience, extensive platform training, documented technical problem solving, current U.S. industry practice, experimental research, professional registrations, corroborating letters, a detailed Business Plan, and an identified prospective funding strategy. His transfer to Siemens Medical Solutions USA, supported by the May 27, 2025 offer, relocation records, tax documents, and payroll, provides objective third-party evidence that his specialized expertise is currently being utilized in the United States and that he is familiar with the Detroit market where the endeavor is intended to begin. The evidence does not establish Siemens as a partner, customer, or investor in IEO; it corroborates the continuity and market relevance of the expertise he will apply to the endeavor. **Exhibit A, Resume; Exhibit B, Eligibility Criteria; and Exhibit C.II.**

4. **Balance of benefits:** A labor certification for a fixed position is ill suited to the prospective founder role. The waiver would enable the creation of an additional U.S. venture and planned U.S. jobs, while allowing qualified U.S. professionals to participate as employees and collaborators. The ongoing national interest in health-care energy measurement and operational efficiency supports the waiver.

For these reasons, Mr. Conforto respectfully requests approval of his Form I-140 petition, classification under INA section 203(b)(2), and a waiver of the job-offer and labor-certification requirements in the national interest.

Thank you for your time and consideration to Mr. Conforto's application.

Respectfully submitted,



Otavio Haverroth Silva
California Bar # 343486

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Exhibit A

JULIO CONFORTO

Email | CONFORTO.JULIO@GMAIL.COM

Phone | +55 (041)9 9851-7658

Medical Equipment Maintenance Engineer at Siemens Healthineers USA (Detroit) since September 2025, specializing in Magnetic Resonance Imaging (MRI). More than a decade of experience at Siemens Healthineers Brasil, providing nationwide first-level technical support and serving on the specialized support team since 2022.
Holds a Master's degree in Electrical Engineering and Industrial Informatics from UTFPR Curitiba, and a Bachelor's degree in Electrical Engineering (2014) from UTFPR Cornélio Procópio. Author and co-author of articles published in high-impact journals, such as Nature Communications (IF 17.2) and Cell Reports Physical Science (IF 7.3), with papers presented at national and international conferences.
Recipient of awards including CS Excellence Award (global), Uptime Siemens Healthineers Award, an honorable mention at a scientific congress, and formal recognition for critical contributions during the COVID-19 pandemic. Serves as a Court-Appointed Technical Expert for the Courts of Justice of Paraná and Santa Catarina. Italian-Brazilian citizen.

PROFESSIONAL EXPERIENCE

CUSTOMER SERVICE ENGINEER 3

SIEMENS HEALTHINEERS | DETROIT, MICHIGAN, UNITED STATES OF AMERICA

09/2025 – PRESENT

I serve as a field engineer specializing in Magnetic Resonance Imaging (MRI) in the Detroit region (USA), responsible for equipment diagnostics, corrective and preventive maintenance, installations, software upgrades, and system calibrations, always in compliance with Siemens Healthineers standards and FDA requirements.
Work closely with the Customer Care Center and specialized technical support teams to ensure the timely resolution of complex service cases and maximize system uptime. I manage parts inventory within the assigned territory and participate in ongoing technical and regulatory training programs in the USA and Europe.
I work on an on-call basis for emergency situations, maintaining close relationships with institutional customers, and strictly following the quality, safety, and ethical standards applicable to the medical sector.

COURT-APPOINTED TECHNICAL EXPERT

COURT OF JUSTICE OF PARANÁ AND COURT OF JUSTICE OF SANTA CATARINA | PARANÁ AND SANTA CATARINA, BRAZIL

07/2022 – 08/2025

I served as a Court-Appointed Technical Expert in civil courts, analyzing technical issues related to electrical engineering within the scope of legal proceedings. I prepared impartial reports based on ABNT standards, applicable legislation, and engineering best practices to assist court decisions. I conducted technical inspections, site inspections, and evaluations of electrical systems and equipment, identifying failures, construction defects and nonconformities. I analyzed projects, memorials, contracts, and technical documentation, in addition to responding to technical questions submitted by the parties, always with technical rigor, ethics, impartiality, and confidentiality

TECHNICAL SUPPORT ENGINEER

SIEMENS HEALTHINEERS | CURITIBA, PARANÁ, BRAZIL

11/2019 – 04/2025

I worked as a Technical Support Engineer at Siemens Healthineers Brasil from November 2019 to April 2025, being responsible for the diagnosis, corrective and preventive maintenance, installation, software upgrades, and calibration of Magnetic Resonance Imaging (MRI) and Computed Tomography (CT) systems throughout the Southern region of Brazil, based in Curitiba.
I collaborated with the factory in Germany to report recurring equipment issues, performed image quality evaluations, and provided technical support to newly hired engineers. Beginning in August 2022, I also joined the specialized technical support team (first level), working in parallel with my field service responsibilities to support engineers across Brazil. I also maintained relationships with customers and the commercial team in pre-sales and post-sales activities.

JUNIOR TECHNICAL SUPPORT ENGINEER

SIEMENS HEALTHINEERS | CHAPECÓ, PARANÁ, BRAZIL

10/2014 – 10/2019

I worked as a Junior Technical Support Engineer at Siemens Healthineers Brasil from October 2014 to October 2019, being responsible for the diagnosis, corrective and preventive maintenance, installation, software upgrades, and calibration of Magnetic Resonance Imaging (MRI) and Computed Tomography (CT) systems throughout the Western region of Brazil, based in Chapecó.

EDUCATION

MASTER'S DEGREE IN ELECTRICAL ENGINEERING AND INDUSTRIAL INFORMATICS - CONCENTRATION: BIOMEDICAL ENGINEERING

FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ

CURITIBA, PR, BRAZIL

10 2021

BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING

FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ

CORNÉLIO PROCÓPIO, PR, BRAZIL

10 2014

CERTIFICATIONS

- **SPIKE TROUBLESHOOTING COURSE – 09/2026**
- **MR IMAGING QUALITY WBT CERTIFICATION – 08/2026**
- **NATIVE/SYNGO FOR MR: INTRODUCTION TO NUMARIS/X CERTIFICATION – 03/2026**
- **MAGNET SYPHON PORT DE-ICE VIRTUAL TRAINING CERTIFICATION – 02/2026**
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- **OCA CT SYSTEM ESSENTIALS FOR SIEMENS CTs – 12/2021**
- **NATIVE/SYNGO USER INTERFACE CERTIFICATION – 03/2021**
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- **MAGNETOM AVANTO AND ESPREE SYSTEM COURSE – 08/2017**
- **SERVICE ESSENTIALS FOR CT – 02/2016**
- **MAGNETOM ESSENZA SYSTEM TRAINING – 06/2015**
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- **SYNGO INCL. LEONARDO WORKSTATION – 02/2015**

PROFESSIONAL LICENSE

REGIONAL COUNCIL OF ENGINEERING AND AGRONOMY

NATIONAL REGISTRATION: 1713711230

REGIONAL REGISTRATION: PR-141994/D

REGIONAL WORK VISA SC: 198826-6

REGIONAL WORK VISA SP: 5071228820

AWARDS AND HONORS

- **RECOGNITION FOR WORK PERFORMED AT SIEMENS HEALTHINEERS – 11/2024**
  CURITIBA, PR, BRAZIL

  I received formal recognition from Siemens Healthineers for my commitment and dedication during my time at the company. The honor reflects the technical consistency, professionalism, and engagement demonstrated in supporting Magnetic Resonance Imaging (MRI) systems, contributing to operational excellence and customer satisfaction.

- **SIEMENS HEALTHINEERS UPTIME AWARD – 01/2024**
  CURITIBA, PR, BRAZIL

  Received an award equivalent to 24.2% of my salary, paid in January 2024 for achieving the goals and objectives established by the company during the October 2022-September 2023 fiscal year in the MR business.

- **RECOGNITION FOR WORK PERFORMED AT SIEMENS HEALTHINEERS – 10/2023**
  CURITIBA, PR, BRAZIL

  I was formally recognized through an institutional e-card for my work in replacing the gradient coil of a Magnetom Aera equipment at Unitom Clinic in Cascavel. The recognition highlighted my commitment, dedication and customer focus, which allowed the early completion of the service and full customer satisfaction. The mention reflects my ability to act with technical excellence in complex situations, ensuring high availability of equipment and strengthening the relationship with the customer.

- **RECOGNITION FOR CONTRIBUTION TO THE GLOBAL CS EXCELLENCE AWARD – SIEMENS HEALTHINEERS – 12/2020**
  CURITIBA, PR, BRAZIL

  I received a letter of formal recognition from Siemens Healthineers' Customer Services leadership highlighting my contribution to winning the global **CS Excellence Award** in 2020. The document emphasized my role in maintaining excellence in commitments and deliverables during the challenging context of the pandemic, my ability to adapt and reinvent, and my unwavering commitment to the quality of customer service, even in the face of the new realities imposed by social distancing and strict use of PPE. The letter reinforces that the team's achievements are explained by the quality of the team and that the award would not have been achieved without my individual work and effort.

- **RECOGNITION FOR WORK PERFORMED AT SIEMENS HEALTHINEERS – 06/2020**
  CURITIBA, PR, BRAZIL

  I received formal institutional recognition from Siemens Healthineers leadership for my commitment and performance during the COVID-19 pandemic. The honor highlighted my ability to overcome difficulties and challenges to maintain the continuity of services in health institutions, contributing directly to the "Fight against Coronavirus". The recognition also emphasized my dedication to the company's purpose, customer focus, and strict adherence to safety standards and use of PPE, reflecting my commitment to technical excellence and public health.

- **CUSTOMER RECOGNITION PUBLISHED IN INTERNAL NEWSLETTER – SIEMENS HEALTHINEERS – 01/2020**
  CURITIBA, PR, BRAZIL

  I had my work publicly recognized by a customer in an internal Siemens Healthineers newsletter (Customer Services Informa). The testimony highlighted my ability to solve critical problems with agility, my professional responsibility, and my availability to serve the client at any time. The spontaneous manifestation of the client emphasized that "it is responsible people like him that we increasingly need in the market", highlighting the direct impact of my service on customer satisfaction and the continuity of health services.

- **OUTSTANDING ELECTRICAL ENGINEERING STUDENT – 05/2014**
  CORNÉLIO PROCÓPIO, PR, BRAZIL

  In celebration of Industry Day, UTFPR-Cornélio Procópio (UTFPR-CP), through its Corporate and Community Relations Council, held a ceremony on May 25, 2015, to honor companies and regional entrepreneurs who stood out in 2014 and collaborated with the institution in education, research and community outreach. Alumni who stood out professionally and contributed to promoting the name of UTFPR were also recognized.

- **IEEE AWARD FOR PRESENTATION OF WORK AT THE ESCUELA DE VERANO LATINO AMERICANA EN ROBÓTICA – 12/2011**
  SANTIAGO, CHILE
  The prize was the amount of U$500.00 for the author of the article chosen to present at the *Escuela de Verano Latino Americana en Robótica* (Latin American Summer School on Robotics).

- **HONORABLE MENTION – 11/2011**
  LONDRINA, PR, BRAZIL

  The honorable mention was given to the article entitled **"Implementation of an FPGA-Based Speed and Position Controller for Engines Applied to Mobile Robotics"**, presented at the UNOPAR Congress in 2011.

ARTICLES PUBLISHED IN SCIENTIFIC MAGAZINES AND/OR JOURNALS

- **PHOTONIC NANOSTRUCTURES MIMICKING FLORAL EPIDERMIS FOR PEROVSKITE SOLAR CELLS**
  Cell Reports Physical Science - Impact Factor (2024): 7.3

  https://www.cell.com/cell-reports-physical-science/fulltext/S2666-3864(22)00310-1?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS266638642200310 1%3Fshowall%3Dtrue
  09/2022 – vol. 3, p. 101019.

  The paper has already been cited in 12 publications worldwide.

- **HIGH EFFICIENCY BLUE ORGANIC LIGHT-EMITTING DIODES WITH BELOW-BANDGAP ELECTROLUMINESCENCE**
  Nature Communications - 5-Year Impact Factor: 17.2 (High-quality research)

  https://dx.doi.org/10.1038/s41467-021-25135-z
  11/2021 – vol. 12, p. 4868

  The paper has already been cited in 108 publications worldwide.

- **AN FPGA-BASED ROBOTICS PLATFORM FOR EDUCATIONAL AND RESEARCH APPLICATIONS**
  Brazilian Robotic Society / IEEE Latin American Robotics Symposium

  10.1109/SBR-LARS.2012.58
  10/2012 – Fortaleza, Ceará, Brazil

  The paper published by IEEE has already been cited in 4 publications worldwide.

- **COMPARATIVE STUDY OF ALTERA AND XILINX RECONFIGURABLE LOGIC TECHNOLOGIES**
  UNOPAR *Científica. Ciência Exatas e Tecnológicas* Journal

  11/2011, vol. 10, No. 1, p. 69-75 – Londrina, PR, Brazil

Academic Metrics
Total citations: 124 (Google Scholar, March/2026)
h-Index: 3

PAPERS ACCEPTED AND PRESENTED AT CONGRESSES

- **ANALYSIS OF THE MACHINING QUALITY OF A DENTAL MILLING MACHINE APPLIED TO PMMA MATERIAL**
  Brazilian Congress on Biomedical Engineering
  09/2020 – Remote, Vitoria, Espírito Santo, Brazil
- **FPGA IMPLEMENTATION OF A PROPORTIONAL-INTEGRAL CONTROLLER FOR SPEED AND POSITION CONTROL SYSTEMS OF ENGINES APPLIED TO MOBILE ROBOTICS**
  6th National Congress of University Extension and 15th UNOPAR Scientific Activities Meeting 11/2012 – Londrina, PR, Brazil
- **AN FPGA-BASED ROBOTICS PLATFORM: SENSING AND CONTROL ASPECTS**
  XII Microelectronics Student Forum (SForum 2012)
  09/2012 – Brasília, DF, Brazil
- **IMPLEMENTATION OF A SPEED CONTROLLER BASED ON FPGA FOR ENGINES USED IN MOBILE ROBOTICS**
  Escuela de Verano Latino Americana en robótica
  12/2011 – Santiago, Chile
- **IMPLEMENTATION OF AN FPGA-BASED SPEED AND POSITION CONTROLLER FOR ENGINES APPLIED IN MOBILE ROBOTICS**
  5th. National Congress on University Outreach / 14th. Unopar Scientific Activities Meeting 11/2011 – Londrina, PR, Brazil
- **COMPARATIVE STUDY OF ALTERA AND XILINX RECONFIGURABLE LOGIC TECHNOLOGIES**
  4th. National Congress on University Outreach / 13th. Unopar Scientific Activities Meeting 11/2010– Londrina, PR, Brazil

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: August 10, 2026.**

JULIO CONFORTO

E-mail | CONFORTO.JULIO@GMAIL.COM

Telefone | +55 (041)9 9851-7658

Engenheiro de Manutenção de Equipamentos Médicos na Siemens Healthineers EUA (Detroit) desde setembro de 2025, especializado em Ressonância Magnética (RM). Mais de uma década de experiência na Siemens Healthineers Brasil, com atuação nacional em suporte técnico de primeiro nível e como integrante da equipe de suporte especializado a partir de 2022.
Mestre em Engenharia Elétrica e Informática Industrial pela UTFPR Curitiba e graduado em Engenharia Elétrica (2014) pela UTFPR Cornélio Procópio. Autor e coautor de artigos em periódicos de alto impacto, como Nature Communications (IF 17.2) e Cell Reports Physical Science (IF 7.3) , com trabalhos apresentados em conferências nacionais e internacionais.
Reconhecido com prêmios como o CS Excellence Award (global) , Prêmio Uptime Siemens Healthineers, menção honrosa em congresso científico e reconhecimentos formais por atuação crítica durante a pandemia de COVID-19. Atua como Perito Judicial nomeado pelos Tribunais de Justiça do Paraná e Santa Catarina. Cidadão ítalo-brasileiro.

EXPERIÊNCIA

CUSTOMER SERVICE ENGINEER 3

SIEMENS HEALTHINEERS | DETROIT, MICHIGAN, ESTADOS UNIDOS DA AMERICA

09/2025 – PRESENTE

Atuo como engenheiro de campo especializado em Ressonância Magnética (RM) na região de Detroit (EUA), sendo responsável pelo diagnóstico, manutenção corretiva e preventiva, instalações, atualizações de software e calibrações de equipamentos, sempre em conformidade com as normas da Siemens Healthineers e requisitos da FDA.
Trabalho integrado ao Customer Care Center e suporte técnico especializado para garantir resolução ágil de chamados complexos e alta disponibilidade dos sistemas. Realizo gestão de peças no território e participo de treinamentos contínuos nos EUA e Europa para atualização técnica e regulatória.
Atuo em regime de sobreaviso para emergências, mantenho relacionamento próximo com clientes institucionais e sigo rigorosamente as políticas de qualidade, segurança e conduta ética aplicáveis ao setor médico.

PERITO JUDICIAL

TRIBUNAL JUSTIÇA DO PARANÁ E TRIBUNAL JUSTIÇA DE SANTA CATARINA | PARANÁ E SANTA CATARINA, BRASIL

07/2022 – 08/2025

Atuei como perito judicial nomeado em varas cíveis, analisando questões técnicas de engenharia elétrica no âmbito de processos judiciais. Elaborei laudos imparciais fundamentados em normas ABNT, legislação vigente e boas práticas de engenharia para subsidiar decisões judiciais. Realizei inspeções técnicas, vistorias e avaliações de sistemas e equipamentos elétricos, identificando falhas, vícios construtivos e não conformidades. Analisei projetos, memoriais, contratos e documentação técnica, além de responder a quesitos formulados pelas partes, sempre com rigor técnico, ética, imparcialidade e confidencialidade.

ENGENHEIRO DE ASSISTÊNCIA TÉCNICA PLENO

SIEMENS HEALTHINEERS | CURITIBA, PARANÁ, BRASIL

11/2019 – 04/2025

Atuei como Engenheiro de Assistência Técnica Pleno na Siemens Healthineers Brasil de novembro de 2019 até abril de 2025, sendo responsável pelo diagnóstico, manutenção corretiva e preventiva, instalações, atualizações de software e calibrações de equipamentos de Ressonância Magnética (RM) e Tomografia Computadorizada (TC) em todo o território da região Sul do Brasil, alocado fisicamente na cidade de Curitiba.
Colaborei com a fábrica na Alemanha para reportar falhas recorrentes, realizei avaliações de qualidade de imagem e prestei suporte técnico a engenheiros recém-contratados. A partir de agosto de 2022, passei a integrar também a equipe de suporte técnico especializado (primeiro nível), atuando em paralelo com minhas funções de campo no suporte a engenheiros em todo o Brasil. Mantive ainda relacionamento com clientes e área comercial em atividades de pré e pós-venda.

ENGENHEIRO DE ASSISTÊNCIA TÉCNICA JUNIOR

SIEMENS HEALTHINEERS | CHAPECÓ, PARANÁ, BRASIL

10/2014 – 10/2019

Atuei como Engenheiro de Assistência Técnica Junior na Siemens Healthineers Brasil de outubro de 2014 até outubro de 2019, sendo responsável pelo diagnóstico, manutenção corretiva e preventiva, instalações, atualizações de software e calibrações de equipamentos de Ressonância Magnética (RM) e Tomografia Computadorizada (TC) em todo o território oeste da região Sul do Brasil, alocado fisicamente na cidade de Chapecó.

EDUCAÇÃO

MESTRADO EM ENGENHARIA ELÉTRICA E INFORMÁTICA INDUSTRIAL - ÁREA DE CONCENTRAÇÃO: ENGENHARIA BIOMÉDICA

UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ

CURITIBA, PR, BRASIL

10 2021

BACHALERADO EM ENGENHARIA ELÉTRICA

UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ

CORNÉLIO PROCÓPIO, PR, BRASIL

10 2014

CERTIFICAÇÕES

- **SPIKE TROUBLESHOOTING COURSE – 09/2026**
- **MR IMAGING QUALITY WBT CERTIFICATION – 08/2026**
- **NATIVE/SYNGO FOR MR: INTRODUCTION TO NUMARIS/X CERTIFICATION – 03/2026**
- **MAGNET SYPHON PORT DE-ICE VIRTUAL TRAINING CERTIFICATION – 02/2026**
- **MAGNETOM VERIO CERTIFICATION – 02/2026**
- **INTRODUCTION TO MAGNETOM SPECTRA CERTIFICATION – 01/2026**
- **SMART REMOTE SERVICES ESSENTIALS CERTIFICATION – 01/2026**
- **SOMATOM GO. PRACTICAL TRAINING (HANDS-ON) – 12/2023**
- **SOMATOM GO PRE-TRAINING (IBT) – 11/2023**
- **SERVICE ESSENTIALS FOR SPECT SYSTEMS – 08/2022**
- **SERVICE ESSENTIALS FOR AX/XP SYSTEMS ADVANCED LEVEL – 05/2022**
- **OCA CT SYSTEM ESSENTIALS FOR SIEMENS CTs – 12/2021**
- **NATIVE/SYNGO USER INTERFACE CERTIFICATION – 03/2021**
- **MAGNETOM AERA/SKYRA AND AVANTO FIT/SKYRA FIT UPGRADE COURSE – 06/2019**
- **MAGNETOM AVANTO AND ESPREE SYSTEM COURSE – 08/2017**
- **SERVICE ESSENTIALS FOR CT – 02/2016**
- **MAGNETOM ESSENZA SYSTEM TRAINING – 06/2015**
- **SERVICE ESSENTIALS FOR MR – 03/2015**
- **SYNGO INCL. LEONARDO WORKSTATION – 02/2015**

LICENÇA PROFISSIONAL

CONSELHO REGIONAL DE ENGENHARIA E AGRONOMIA

REGISTRO NACIONAL: 1713711230

REGISTRO REGIONAL: PR-141994/D

VISTO DE TRABALHO REGIONAL SC: 198826-6

VISTO DE TRABALHO REGIONAL SP: 5071228820

PRÊMIOS E HONRARIAS

- **RECONHECIMENTO PELO TRABALHO EXECUTADO NA SIEMENS HEALTHINEERS – 11/2024**
  CURITIBA, PR, BRASIL

  Recebi reconhecimento formal da Siemens Healthineers pelo meu comprometimento e dedicação durante minha atuação na empresa. A honraria reflete a consistência técnica, o profissionalismo e o engajamento demonstrados no suporte a equipamentos de Ressonância Magnética (MR), contribuindo para a excelência operacional e a satisfação dos clientes.

- **PRÊMIO UPTIME SIEMENS HEALTHINEERS – 01/2024**
  CURITIBA, PR, BRASIL

  O prêmio foi o percentual de 24.2% em relação ao salário, pago em janeiro de 2024 pelo atingimento das metas e objetivos estipulados pela empresa no ano comercial de outubro de 2022 até setembro de 2023 na modalidade de MR.

- **RECONHECIMENTO PELO TRABALHO EXECUTADO NA SIEMENS HEALTHINEERS – 10/2023**
  CURITIBA, PR, BRASIL

  Fui formalmente reconhecido por meio de e-card institucional pelo trabalho realizado na troca da bobina de gradiente do equipamento Magnetom Aera, na Clínica Unitom de Cascavel. O reconhecimento destacou meu empenho, dedicação e foco no cliente, que permitiram a conclusão antecipada do serviço e a plena satisfação do cliente. A menção reflete minha capacidade de atuar com excelência técnica em situações complexas, garantindo alta disponibilidade dos equipamentos e fortalecendo o relacionamento com o cliente.

- **RECONHECIMENTO POR CONTRIBUIÇÃO AO PRÊMIO GLOBAL CS EXCELLENCE AWARD – SIEMENS HEALTHINEERS – 12/2020**
  CURITIBA, PR, BRASIL

  Recebi carta de reconhecimento formal da liderança de Customer Services da Siemens Healthineers destacando minha contribuição para a conquista do prêmio global **CS Excellence Award** no ano de 2020. O documento enfatizou meu papel na manutenção da excelência em compromissos e entregas durante o desafiador contexto da pandemia, minha capacidade de adaptação e reinvenção, e meu compromisso inabalável com a qualidade do atendimento aos clientes, mesmo diante das novas realidades impostas pelo distanciamento social e uso rigoroso de EPIs. A carta reforça que as conquistas da equipe são explicadas pela qualidade do time e que o prêmio não teria sido alcançado sem meu trabalho e esforço individuais.

- **RECONHECIMENTO PELO TRABALHO EXECUTADO NA SIEMENS HEALTHINEERS – 06/2020**
  CURITIBA, PR, BRASIL

  Recebi reconhecimento institucional formal da liderança da Siemens Healthineers pelo meu comprometimento e atuação durante a pandemia de COVID-19. A honraria destacou minha capacidade de superar dificuldades e desafios para manter a continuidade dos serviços em instituições de saúde, contribuindo diretamente para a "Luta contra o Coronavírus". O reconhecimento também enfatizou minha dedicação ao propósito da empresa, o foco no cliente e a adesão rigorosa às normas de segurança e uso de EPIs, refletindo meu compromisso com a excelência técnica e a saúde pública.

- **RECONHECIMENTO DE CLIENTE PUBLICADO EM INFORMATIVO INTERNO – SIEMENS HEALTHINEERS – 01/2020**
  CURITIBA, PR, BRASIL

  Tive meu trabalho reconhecido publicamente por um cliente em informativo interno da Siemens Healthineers (Customer Services Informa). O depoimento destacou minha capacidade de resolver problemas críticos com agilidade, minha responsabilidade profissional e minha disponibilidade para atender o cliente em qualquer horário. A manifestação espontânea do cliente enfatizou que "são pessoas responsáveis como ele que cada vez mais precisamos no mercado", evidenciando o impacto direto do meu atendimento na satisfação do cliente e na continuidade dos serviços de saúde.

- **ALUNO DESTAQUE DO CURSO DE ENGENHARIA ELÉTRICA – 05/2014**
  CORNÉLIO PROCÓPIO, PR, BRASIL

  Em comemoração ao Dia da Indústria, a UTFPR-Cornélio Procópio (UTFPR-CP), por meio de seu Conselho de Relações Corporativas e Comunitárias, realizou uma cerimônia em 25 de maio de 2015 para homenagear empresas e empreendedores regionais que se destacaram em 2014 e colaboraram com a instituição em educação, pesquisa e extensão comunitária. Ex-alunos que se destacaram no mercado de trabalho e ajudaram a promover o nome da UTFPR também foram reconhecidos.

- **PRÊMIO IEEE PARA APRESENTAÇÃO DO TRABALHO NA ESCUELA DE VERANO LATINO AMERICANA EN ROBÓTICA – 12/2011**
  SANTIAGO, CHILE
  O prêmio foi o valor de U$500,00 para o autor do artigo escolhido para apresentar na Escuela de Verano Latino Americana em Robótica.

- **MENÇÃO HONROSA – 11/2011**
  LONDRINA, PR, BRASIL

  A menção honrosa foi concedida ao artigo intitulado **"Implementação de um Controlador de Velocidade e Posição Baseado em FPGA para Motores Aplicados em Robótica Móvel"**, apresentado no Congresso da UNOPAR no ano de 2011.

ARTIGOS PUBLICADOS EM REVISTAS E/OU JORNAIS CIENTIFICAS

- **PHOTONIC NANOSTRUCTURES MIMICKING FLORAL EPIDERMIS FOR PEROVSKITE SOLAR CELLS**
  Cell Reports Physical Science - Impact Factor (2024): 7.3

  https://www.cell.com/cell-reports-physical-science/fulltext/S2666-3864(22)00310-1?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS266638642200310 1%3Fshowall%3Dtrue
  09/2022 – v. 3, p. 101019.

  Trabalho já foi citado em 12 trabalhos mundialmente.

- **HIGH EFFICIENCY BLUE ORGANIC LIGHT-EMITTING DIODES WITH BELOW-BANDGAP ELECTROLUMINESCENCE**
  Nature Communications - 5-Year Impact Factor: 17.2 (High-quality research)

  https://dx.doi.org/10.1038/s41467-021-25135-z
  11/2021 – v. 12, p. 4868

  Trabalho já foi citado em 108 trabalhos mundialmente.
- **AN FPGA-BASED ROBOTICS PLATFORM FOR EDUCATIONAL AND RESEARCH APPLICATIONS**
  Sociedade Brasileira Robotica / IEEE Latin American Robotics Symposium

  10.1109/SBR-LARS.2012.58
  10/2012 – Fortaleza, Ceará, Brasil

  Tabalho publicado na IEEE já foi citado em 4 trabalhos mundialmente.
- **ESTUDO COMPARATIVO DAS TECNOLOGIAS DE LOGICA RECONFIGURAVEL ALTERA E XILINX**
  UNOPAR Científica. Ciência Exatas e Tecnológicas

  11/2011, v. 10, n. 1, p. 69-75 – Londrina, PR, Brasil

Métricas Acadêmicas
Total de citações: 124 (Google Scholar, março/2026)
Índice h: 3

ARTIGOS ACEITOS E APRESENTADOS EM CONGRESSOS

- **ANÁLISE DA QUALIDADE DE USINAGEM DA FRESADORA ODONTOLÓGICA APLICADA AO MATERIAL PMMA**
  Congresso Brasileiro de Engenharia Biomédica
  09/2020 – Remotamente, Vitoria, Espírito Santo, Brasil
- **IMPLEMENTAÇÃO NO FPGA DE UM CONTROLADOR PROPORCIONAL-INTEGRATIVO PARA OS SISTEMAS DE VELOCIDADE E POSIÇÃO DE MOTORES APLICADOS NA ROBÓTICA MÓVEL**
  6º Congresso Nacional de Extensão Universitária e 15º Encontro de Atividades científicas da UNOPAR
  11/2012 – Londrina, PR, Brasil
- **AN FPGA-BASED ROBOTICS PLATFORM: SENSING AND CONTROL ASPECTS**
  XII Microelectronics Student Forum (SForum 2012)
  09/2012 – Brasília, DF, Brasil
- **IMPLEMENTATION OF A SPEED CONTROLLER BASED ON FPGA FOR ENGINES USED IN MOBILE ROBOTICS**
  Escuela de Verano Latino Americana en robótica
  12/2011 – Santiago, Chile
- **IMPLEMENTAÇÃO DE UM CONTROLADOR DE VELOCIDADE E POSIÇÃO BASEADO EM FPGA PARA MOTORES APLICADOS EM ROBÓTICA MÓVEL**
  5º. Congresso Nacional de Extensão Universitária / 14º. Encontro de Atividades Cientificas da Unopar
  11/2011 – Londrina, PR, Brasil
- **ESTUDO COMPARATIVO DAS TECNOLOGIAS DE LOGICA RECONFIGURAVEL ALTERA E XILINX**
  4º. Congresso Nacional de Extensão Universitária / 13º. Encontro de Atividades Cientificas da Unopar
  11/2010– Londrina, PR, Brasil

Exhibit B ELEGIBILITY CRITERIA - Advanced Degree

Federative Republic of Brazil
Ministry of Education
Federal Technological University of Paraná

Diploma

The President of the Federal Technological University of Paraná, in the exercise of his duties and considering the completion of the Bachelor's Degree Program in Electrical Industrial Engineering on October 2, 2014, hereby confers the degree of Electrical Engineer upon

Julio Conforto

Brazilian, born in the city of Maringá, in the state of Paraná, on July 26, 1991, holder of identification document No. 10.240.201-4/ PR and CPF No. 079.523.439-20, and hereby grants him this Diploma, with all the rights and privileges thereto appertaining.

Cornélio Procópio, October 22, 2014.

-----// signature //-----
Graduate

-----// signature //-----
Carlos Eduardo Cantarelli
President

UTFPR
UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ

FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ

ELECTRICAL INSDUSTRIAL ENGINEERING PROGRAM
Emphasis: Electrotechnics

Program authorized by Resolution No. 79/06 of the Teaching, Research, and Graduate Studies Council of UTFPR, on October 20, 2006. Recognized in accordance with Article 63 of Normative Ordinance No. 40, published in the Federal Official Gazette of December 13, 2007.

-----// signature //-----
Lenir Casagrande Lucateli
Director of the Department of Academic Records
Cornélio Procópio Campus

Federal Technological University of Paraná
Vice-President's Office for Undergraduate Studies and Vocational Education
Department of Diploma Registration

Diploma registered under No. ITFPR-12951, in Book 0026, pursuant to paragraph 1 of Article 48, of Law No. 9,394, of December 20, 1996.

Curitiba, November 17, 2014.

-----// signature //-----
Rosângela Gomes da Silva
Director of the Department of Diploma Registration

By delegation of authority, in accordance with Article 6 of Decree No. 83,937, of September 6, 1979, and pursuant to Ordinance No. 689, of May 27, 2020, issued by the President of UTFPR.

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: April 4, 2026.**

República Federativa do Brasil
Ministério da Educação
Universidade Tecnológica Federal do Paraná

Diploma

O Reitor da Universidade Tecnológica Federal do Paraná, no uso de suas atribuições, e tendo em vista a conclusão do Curso de Engenharia Industrial Elétrica, em 02 de outubro de 2014, confere o título de Engenheiro Eletricista a

Júlio Conforto

de nacionalidade brasileira, natural da cidade de Maringá, do Estado do Paraná, nascido em 26 de julho de 1991, portador do documento de identificação nº 10.240.201-4/PR e CPF nº 079.523.439-20, e outorga-lhe o presente Diploma, a fim de que possa gozar de todos os direitos e prerrogativas legais.

Cornélio Procópio, 22 de outubro de 2014.

Julio Conforto
Diplomado

Carlos Eduardo Cantarelli
Reitor

UTFPR
UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ

CURSO DE ENGENHARIA INDUSTRIAL ELÉTRICA
Ênfase: Eletrotécnica

Curso autorizado pela Resolução nº 79/06 do Conselho de Ensino, Pesquisa e Pós-Graduação da UTFPR, em 20 de outubro de 2006. Reconhecido de acordo com o artigo 63, da Portaria Normativa nº 40, publicada no D.O.U. de 13 de dezembro de 2007.

Lenir Casagrande Lucateli
Chefe do Departamento de Registros Acadêmicos
Câmpus Cornélio Procópio

Ministério da Educação
Universidade Tecnológica Federal do Paraná
Pró-Reitoria de Graduação e Educação Profissional
Departamento de Registro de Diplomas

Diploma registrado sob o nº UTFPR-12951, no Livro 0026, nos termos do disposto no parágrafo 1°, do Artigo 48, da Lei nº 9.394, de 20 de dezembro de 1996.

Curitiba, 17 de novembro de 2014.

Rosângela Gomes da Silva
Chefe do Departamento de Registro de Diplomas

Por delegação de competência, de acordo com o art. 6°, do Decreto nº 83.937, de 06 de setembro de 1979 e nos termos da Portaria nº 1.061, de 26 de setembro de 2008, do Reitor da UTFPR.

Ministry of Education
Federal Technological University of Paraná
CORNÉLIO PROCÓPIO CAMPUS

STUDENT	NAME				ENROLLMENT NUMBER
	JULIO CONFORTO				0010662336
	DATE OF BIRTH	PLACE OF BIRTH	STATE	NATIONALITY	SEX
	07/26/1991	MARINGÁ	PARANÁ	BRAZILIAN	MALE
	IDENTITY DOCUMENT NUMBER	STATE	CPF		
	10.240.201-4	PARANÁ	07952343920		
	HIGH SCHOOL		CITY - STATE		COMPLETION
	MARECHAL RONDON STATE SCHOOL		CAMPO MOURÃO - PARANÁ		2008
PROGRAM	ADMISSION PROCESS		YEAR		
	FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ		2009		
	PROGRAM				CURRICULUM
	ELECTRICAL INDUSTRIAL ENGINEERING - EMPHASIS: ELECTROTECHNICS				00031
	DEGREE				
	ELECTRICAL ENGINEER				
	LEGAL BASIS				
	The program was authorized by Resolution No. 79/06 of the Teaching, Research, and Graduate Council of UTFPR on October 20, 2006. Recognized in accordance with Article 63 of Normative Ordinance No. 40, published in the Federal Official Gazette (D.O.U.) on December 13, 2007.				
	27 – STATUS REGARDING THE NATIONAL STUDENT PERFORMANCE EXAMINATION - ENADE Law No. 10,861, of April 14, 2004 ENTERING STUDENT - ENADE: Not applicable GRADUATING STUDENT - ENADE: Not applicable				

ACADEMIC TRANSCRIPT - HIGHER EDUCATION

CODE	COMPLETED COURSES / COURSE UNITS	SEMESTER/YEAR	CH	CRED	GRADE	ATT.	COD
1ST TERM							
ET31K	ELECTRICAL DRAWING	1/2009	075	005	08.3	100.0	02
ET31L	INTRODUCTION TO ELECTRICAL ENGINEERING	1/2009	030	002	08.0	100.0	02
FI31B	PHYSICS 1	1/2009	075	005	07.4	100.0	02
IF31P	COMPUTING	1/2009	060	004	09.1	100.0	02
MA31G	DIFFERENTIAL AND INTEGRAL CALCULUS 1	1/2009	090	006	06.2	097.2	02
MA311	MATHEMATICS 1	1/2009	090	006	07.4	100.0	02
2ND TERM							
CE32C	ORAL AND WRITTEN COMMUNICATION	2/2009	030	002	09.4	094.7	02
CE32D	RESEARCH METHODOLOGY	2/2009	030	002	09.0	094.1	02
ES32B	SOCIOLOGY AND POLITICS 1	2/2009	030	002	09.0	100.0	02
ES33A	FUNDAMENTALS OF ETHICS	1/2010	030	002	08.1	100.0	02
ES34B	HISTORY OF ECONOMIC THOUGHT	2/2010	030	002	10.0	100.0	02
ET32L	ELECTRICITY AND MAGNETISM	2/2009	075	005	08.3	097.9	02
FI32B	PHYSICS 2	2/2009	075	005	07.9	094.2	02
MA32G	DIFFERENTIAL AND INTEGRAL CALCULUS 2	2/2009	060	004	07.2	100.0	02
ME32K	GENERAL MECHANICS 1	2/2009	060	004	09.2	100.0	02
QB31B	CHEMISTRY	2/2009	060	006	07.8	097.3	02
3RD TERM							
ET33Q	ELECTRICAL CIRCUITS 1	1/2010	090	006	08.0	097.4	02
ET33R	ELECTRICAL INSTALLATIONS LABORATORY	1/2010	045	003	07.7	100.0	02
MA33A	NUMERICAL CALCULUS	1/2010	060	004	09.5	100.0	02
MA33B	DIFFERENTIAL AND INTEGRAL CALCULUS 3	1/2010	060	004	07.5	100.0	02
MA33C	MATHEMATICS 2	1/2010	060	004	08.8	100.0	02
ME33P	GENERAL MECHANICS 2	1/2010	060	004	08.3	097.2	02
4TH TERM							
ET34L	ELECTRICAL CIRCUITS 2	2/2010	090	006	08.7	099.0	02
ET34M	ELECTROMAGNETISM	2/2010	060	004	10.0	100.0	02
ET34N	ELECTRONICS	2/2010	090	006	07.2	100.0	02
ET34P	PRINCIPLES OF STRENGTH OF MATERIALS	2/2010	045	003	07.7	100.0	02
F134B	PHYSICS 4	2/2010	060	004	07.9	097.1	02
MA34B	DIFFERENTIAL AND INTEGRAL CALCULUS 4	2/2010	060	004	07.9	100.0	02
5TH TERM							
ES35A	APPLIED PSYCHOLOGY TO WORK	2/2010	030	002	08.4	083.3	02
ES35B	ENVIRONMENTAL SCIENCE	1/2010	030	002	09.2	095.0	02
ET35L	ELECTRICAL CIRCUITS 3	1/2011	060	004	08.8	098.7	02
ET35M	ELECTRICAL MACHINES 1	1/2011	060	004	08.9	100.0	02
ET35N	DIGITAL ELECTRONICS	1/2011	060	004	08.6	092.1	02
ET35P	ELECTRICAL MATERIALS AND EQUIPMENT	1/2011	060	004	09.3	097.2	02
ET35Q	PRINCIPLES OF CONTROL	1/2011	060	004	08.8	097.3	02
GE35B	ECONOMICS	1/2011	030	002	07.0	100.0	02
MA35B	PROBABILITY AND STATISTICS	1/2011	060	004	08.4	094.6	02
6TH TERM							
ET36K	ELECTRICAL MACHINES 2	2/2011	060	004	09.0	092.3	02
ET36M	POWER ELECTRONICS	2/2011	090	006	07.6	098.2	02
ET36N	BUILDING ELECTRICAL INSTALLATIONS	2/2011	090	006	07.8	100.0	02
ET36P	CONTROL SYSTEMS	2/2011	060	004	07.9	100.0	02
GE36C	PRODUCTION MANAGEMENT	1/2011	030	002	09.4	100.0	02
GE36D	FINANCIAL MANAGEMENT	2/2011	030	002	08.0	100.0	02
DEGREE CONFERRAL	OCTOBER 2, 2014	**TOTAL HOURS/CREDITS:** 2550					

(*) INTERPRETATION OF ENTRY CODES

02-PASSED BASED ON GRADE AND ATTENDANCE	05-PASSED BY PROFICIENCY
03-PASSED BASED ON ATTENDANCE	06-CREDIT GRANTED
04-PASSED BASED ON GRADE	08-EXEMPTED 24-PASSED

DATE OF ISSUE: CORNÉLIO PROCÓPIO, OCTOBER 2, 2014
PAGE: 1/2

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Lenir Casagrande Lucateli
Director of the Department of Academic Records

-----// signature //-----
Vania Lucia Delmonico
Department of Academic Records

Translator's Note: Legend: CH – Course hours; CRED – Course Credits; ATT. – Attendance; COD – Internal code for student's status.

Ministry of Education
Federal Technological University of Paraná
CORNÉLIO PROCÓPIO CAMPUS

STUDENT	NAME				ENROLLMENT NUMBER
	JULIO CONFORTO				0010662336
	DATE OF BIRTH	PLACE OF BIRTH	STATE	NATIONALITY	SEX
	07/26/1991	MARINGÁ	PARANÁ	BRAZILIAN	MALE
	IDENTITY DOCUMENT NUMBER	STATE	CPF		
	10.240.201-4	PARANÁ	07952343920		
	HIGH SCHOOL		CITY - STATE		COMPLETION
	MARECHAL RONDON STATE SCHOOL		CAMPO MOURÃO - PARANÁ		2008
PROGRAM	ADMISSION PROCESS		YEAR		
	FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ		2009		
	PROGRAM				CURRICULUM
	ELECTRICAL INDUSTRIAL ENGINEERING - EMPHASIS: ELECTROTECHNICS				00031
	DEGREE				
	ELECTRICAL ENGINEER				
	LEGAL BASIS				
	The program was authorized by Resolution No. 79/06 of the Teaching, Research, and Graduate Council of UTFPR on October 20, 2006. Recognized in accordance with Article 63 of Normative Ordinance No. 40, published in the Federal Official Gazette (D.O.U.) on December 13, 2007.				
	27 – STATUS REGARDING THE NATIONAL STUDENT PERFORMANCE EXAMINATION - ENADE Law No. 10,861, of April 14, 2004 ENTERING STUDENT - ENADE: Not applicable GRADUATING STUDENT - ENADE: Not applicable				

ACADEMIC TRANSCRIPT - HIGHER EDUCATION

CODE	COMPLETED COURSES / COURSE UNITS	SEMESTER/YEAR	CH	CRED	GRADE	ATT.	COD
ME35R	TRANSPORT PHENOMENA 1	2/2011	030	002	08.0	100.0	02
7TH TERM							
ET37E	POWER SYSTEMS 1	1/2012	075	005	07.7	096.5	02
ET37F	ELECTRICAL MACHINES 3	1/2012	060	004	08.5	097.4	02
ET37G	INDUSTRIAL INSTALLATIONS	1/2012	090	006	09.2	090.7	02
ET371	MICROCONTROLLER SYSTEMS	1/2012	060	004	09.4	097.3	02
ET37J	FUNDAMENTALS OF OCCUPATIONAL SAFETY ENGINEERING	1/2012	045	003	08.5	094.7	02
GE37A	PEOPLE MANAGEMENT	1/2011	030	002	09.3	100.0	02
ME37N	TRANSPORT PHENOMENA 2	1/2012	045	003	06.2	100.0	02
8TH TERM							
CE38A	METHODOLOGY APPLIED TO THE UNDERGRADUATE THESIS	2/2012	030	002	08.5	094.7	02
ET30E	INDUSTRIAL SUBSTATION DESIGN	1/2012	060	004	09.0	088.2	02
ET30F	TARIFF SYSTEMS AND GENERAL CONDITIONS FOR ELECTRIC ENERGY SUPPLY	2/2012	060	004	09.5	094.8	02
ET30G	INTELLIGENT SYSTEMS APPLIED TO ENGINEERING	2/2012	060	004	09.0	095.6	02
ET38C	POWER SYSTEMS 2	2/2012	075	005	08.5	094.4	02
ET38H	LIGHTING ENGINEERING	2/2013	060	004	06.0	080.0	02
ET38J	MAINTENANCE MANAGEMENT	1/2013	060	004	09.0	100.0	02
ET38K	AUTOMATION AND DISCRETE CONTROL	2/2012	060	004	09.1	091.7	02
ET38L	INDUSTRIAL INSTRUMENTATION	2/2012	060	004	09.6	094.4	02
ET38X	SUPERVISED INTERNSHIP	2/2014	360	024	09.7	000.0	04
ET39A	PROJECT MANAGEMENT	1/2012	030	002	09.8	089.5	02
ET39K	LOAD CONTROL IN ELECTRICAL SYSTEMS	2/2012	060	004	08.0	100.0	02
GE37M	MARKETING	1/2013	030	002	08.5	076.5	02
GE38B	COST MANAGEMENT	2/2012	030	002	10.0	100.0	02
9TH TERM							
ET39Z	UNDERGRADUATE THESIS 1	1/2013	060	004	09.5	000.0	04
10TH TERM							
AT61A	COMPLEMENTARY ACTIVITIES	2/2013	180	000	00.0	000.0	24
ES30A	ETHICS, PROFESSION, AND CITIZENSHIP	1/2013	030	002	08.0	100.0	02
ET30Z	UNDERGRADUATE THESIS 2	2/2013	060	004	10.0	-------	04

DEGREE CONFERRAL	OCTOBER 2, 2014	**TOTAL HOURS/CREDITS:** 4320 / 276

(*) INTERPRETATION OF ENTRY CODES

02-PASSED BASED ON GRADE AND ATTENDANCE	05-PASSED BY PROFICIENCY
03-PASSED BASED ON ATTENDANCE	06-CREDIT GRANTED
04-PASSED BASED ON GRADE	08-EXEMPTED 24-PASSED

DATE OF ISSUE: CORNÉLIO PROCÓPIO, OCTOBER 2, 2014
PAGE: 2/2

-----// signature //-----
Lenir Casagrande Lucateli
Director of the Department of Academic Records

-----// signature //-----
Vania Lucia Delmonico
Department of Academic Records

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura.

Date: April 5, 2026.

Ministério da Educação
Universidade Tecnológica Federal do Paraná
CÂMPUS CORNÉLIO PROCÓPIO

ALUNO

NOME					Nº DE MATRÍCULA
JULIO CONFORTO					0001062336
DATA DE NASCIMENTO	NATURALIDADE	UF	NACIONALIDADE		SEXO
26/07/1991	MARINGÁ	PR	Brasileira		MASCULINO
IDENTIDADE	UF	CPF			
10.240.201-4	PR	07952343920			
ENSINO MÉDIO		CIDADE-UF			CONCLUSÃO
COLÉGIO ESTADUAL MARECHAL RONDON		CAMPO MOURÃO-PR			2008

CURSO

PROCESSO SELETIVO	ANO
UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ	2009
CURSO	MATRIZ
ENGENHARIA INDUSTRIAL ELÉTRICA - ÊNFASE ELETROTÉCNICA	00031
TITULAÇÃO	
ENGENHEIRO ELETRICISTA	
FUNDAMENTO LEGAL	
Curso autorizado pela Resolução nº 79/06 do Conselho de Ensino, Pesquisa e Pós-Graduação da UTFPR, em 20 de outubro de 2006. Reconhecido de acordo com o artigo 63, da PortariaNormativan°40,publicadanoD.O.U.de13dedezembrode2007	
27-SITUAÇÃO EM RELAÇÃO AO EXAME NACIONAL DE DESEMPENHO DE ESTUDANTES - ENADE Lei 10.861 de 14 de abril de 2004 INGRESSANTE - ENADE - não aplicável CONCLUINTE - ENADE - não aplicável	

HISTÓRICO - ENSINO SUPERIOR

CÓDIGO	NOME DAS DISCIPLINAS / UNIDADES CURRICULARES CURSADAS	SEM/ANO	CH	CRED	NOTA	FREQ	COD
1º. Semestre							
ET31K	DESENHO ELETRICO	1/2009	075	005	08,3	100,0	02
ET31L	INTRODUÇÃO A ENGENHARIA ELETRICA	1/2009	030	002	08,0	100,0	02
FI31B	FISICA 1	1/2009	075	005	07,4	100,0	02
IF31P	COMPUTAÇÃO	1/2009	060	004	09,1	100,0	02
MA31G	CALCULO DIFERENCIAL E INTEGRAL 1	1/2009	090	006	06,2	097,2	02
MA31I	MATEMATICA 1	1/2009	090	006	07,4	100,0	02
2º. Semestre							
CE32C	COMUNICAÇÃO ORAL E ESCRITA	2/2009	030	002	09,4	094,7	02
CE32D	METODOLOGIA DA PESQUISA	2/2009	030	002	09,0	094,1	02
ES32B	SOCIOLOGIA E POLITICA 1	2/2009	030	002	09,0	100,0	02
ES33A	FUNDAMENTOS DA ÉTICA	1/2010	030	002	08,1	100,0	02
ES34B	HISTORIA DO PENSAMENTO ECONOMICO	2/2010	030	002	10,0	100,0	02
ET32L	ELETRICIDADE E MAGNETISMO	2/2009	075	005	08,3	097,9	02
FI32B	FISICA 2	2/2009	075	005	07,9	094,2	02
MA32G	CALCULO DIFERENCIAL E INTEGRAL 2	2/2009	060	004	07,2	100,0	02
ME32K	MECANICA GERAL 1	2/2009	060	004	09,2	100,0	02
QB31B	QUIMICA	2/2009	090	006	07,8	097,3	02
3º. Semestre							
ET33Q	CIRCUITOS ELETRICOS 1	1/2010	090	006	08,0	097,4	02
ET33R	LABORATORIO DE INSTALAÇÕES ELETRICAS	1/2010	045	003	07,7	100,0	02
MA33A	CALCULO NUMERICO	1/2010	060	004	09,5	100,0	02
MA33B	CALCULO DIFERENCIAL E INTEGRAL 3	1/2010	060	004	07,5	100,0	02
MA33C	MATEMATICA 2	1/2010	060	004	08,8	100,0	02
ME33P	MECANICA GERAL 2	1/2010	060	004	08,3	097,2	02
4º. Semestre							
ET34L	CIRCUITOS ELETRICOS 2	2/2010	090	006	08,7	099,0	02
ET34M	ELETROMAGNETISMO	2/2010	060	004	10,0	100,0	02
ET34N	ELETRONICA	2/2010	090	006	07,2	100,0	02
ET34P	PRINCIPIOS DE RESISTENCIA DOS MATERIAIS	2/2010	045	003	07,7	100,0	02
FI34B	FISICA 4	2/2010	060	004	07,9	097,1	02
MA34B	CALCULO DIFERENCIAL E INTEGRAL 4	2/2010	060	004	07,9	100,0	02
5º. Semestre							
ES35A	PSICOLOGIA APLICADA AO TRABALHO	2/2010	030	002	08,4	083,3	02
ES35B	CIENCIA DO AMBIENTE	1/2010	030	002	09,2	095,0	02
ET35L	CIRCUITOS ELETRICOS 3	1/2011	060	004	08,8	098,7	02
ET35M	MAQUINAS ELETRICAS 1	1/2011	060	004	08,9	100,0	02
ET35N	ELETRONICA DIGITAL	1/2011	060	004	08,6	092,1	02
ET35P	MATERIAIS E EQUIPAMENTOS ELETRICOS	1/2011	060	004	09,3	097,2	02
ET35Q	PRINCIPIOS DE CONTROLE	1/2011	060	004	08,8	097,3	02
GE35B	ECONOMIA	1/2011	030	002	07,0	100,0	02
MA35B	PROBALIDADE E ESTATISTICA	1/2011	060	004	08,4	094,6	02
6º. Semestre							
ET36K	MAQUINAS ELETRICAS 2	2/2011	060	004	09,0	092,3	02
ET36M	ELETRONICA DE POTENCIA	2/2011	090	006	07,6	098,2	02
ET36N	INSTALAÇÕES PREDIAIS	2/2011	090	006	07,8	100,0	02
ET36P	SISTEMAS DE CONTROLE	2/2011	060	004	07,9	100,0	02
GE36C	GESTÃO DA PRODUÇÃO	1/2011	030	002	09,4	100,0	02
GE36D	GESTÃO FINANCEIRA	2/2011	030	002	08,0	100,0	02

COLAÇÃO DE GRAU	02 DE OUTUBRO DE 2014	TOTAL HORAS/CRÉDITOS: 2550

(*) INTERPRETAÇÃO DO CODIGO DE LANÇAMENTO

02-APROVADO POR NOTA/FREQUÊNCIA	05-APROVADO POR SUFICIÊNCIA
03-APROVADO POR FREQUÊNCIA	06-CRÉDITO CONSIGNADO
04-APROVADO POR NOTA	08-DISPENSADO 24-APROVADO

DATA EMISSAO: CORNÉLIO PROCÓPIO, 02 DE OUTUBRO DE 2014
PAGINA: 1/2

Lenir Casagrande Lucateli
Chefe do Departamento de Registros Acadêmicos

Vania Lucia Delmonico
Departamento de Registros Acadêmicos

Ministério da Educação
Universidade Tecnológica Federal do Paraná
CÂMPUS CORNÉLIO PROCÓPIO

ALUNO

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10.240.201-4	PR	07952343920			
ENSINO MÉDIO			CIDADE-UF		CONCLUSÃO
COLÉGIO ESTADUAL MARECHAL RONDON			CAMPO MOURÃO-PR		2008

CURSO

PROCESSO SELETIVO	ANO
UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ	2009
CURSO	MATRIZ
ENGENHARIA INDUSTRIAL ELÉTRICA - ÊNFASE ELETROTÉCNICA	00031
TITULAÇÃO	
ENGENHEIRO ELETRICISTA	
FUNDAMENTO LEGAL	
Curso autorizado pela Resolução nº 79/06 do Conselho de Ensino, Pesquisa e Pós-Graduação da UTFPR, em 20 de outubro de 2006. Reconhecido de acordo com o artigo 63, da PortariaNormativan°40,publicadanoD.O.U.de13dedezembrode2007	
27-SITUAÇÃO EM RELAÇÃO AO EXAME NACIONAL DE DESEMPENHO DE ESTUDANTES - ENADE Lei 10.861 de 14 de abril de 2004 INGRESSANTE - ENADE - não aplicável CONCLUINTE - ENADE - não aplicável	

HISTÓRICO - ENSINO SUPERIOR

CÓDIGO	NOME DAS DISCIPLINAS / UNIDADES CURRICULARES CURSADAS	SEM/ANO	CH	CRED	NOTA	FREQ	COD
ME35R	FENOMENOS DE TRANSPORTE 1	2/2011	030	002	08,8	100,0	02
7°. Semestre							
ET37E	SISTEMAS DE POTENCIA 1	1/2012	075	005	07,7	096,5	02
ET37F	MAQUINAS ELETRICAS 3	1/2012	060	004	08,5	097,4	02
ET37G	INSTALAÇÕES INDUSTRIAIS	1/2012	090	006	09,2	090,7	02
ET37I	SISTEMAS MICROCONTROLADOS	1/2012	060	004	09,4	097,3	02
ET37J	FUNDAMENTOS DE ENGENHARIA DE SEGURANÇA DO TRABALHO	1/2012	045	003	08,5	094,7	02
GE37A	GESTÃO DE PESSOAS	1/2011	030	002	09,3	100,0	02
ME37N	FENOMENOS DE TRANSPORTE 2	1/2012	045	003	06,2	100,0	02
8°. Semestre							
CE38A	METODOLOGIA APLICADA AO TCC	2/2012	030	002	08,5	094,7	02
ET30E	PROJETOS DE SUBSTAÇÕES INDUSTRIAIS	1/2012	060	004	09,0	088,2	02
ET30F	SISTEMAS TARIFARIOS E CONDIÇÕES GERAIS DE FORNECIMENTO DE ENERGIA ELÉTRICA	2/2012	060	004	09,5	094,8	02
ET30G	SISTEMAS INTELIGENTES APLICADOS A ENGENHARIA	2/2012	060	004	09,0	095,6	02
ET38C	SISTEMAS DE POTENCIA 2	2/2012	075	005	08,5	094,4	02
ET38H	ENGENHARIA DE ILUMINAÇÃO	2/2013	060	004	06,0	080,0	02
ET38J	GERÊNCIA DE MANUTENÇÃO	1/2013	060	004	09,0	100,0	02
ET38K	AUTOMAÇÃO E CONTROLE DISCRETO	2/2012	060	004	09,1	091,7	02
ET38L	INSTRUMENTAÇÃO INDUSTRIAL	2/2012	060	004	09,6	094,4	02
ET38X	ESTAGIO SUPERVISIONADO	2/2014	360	024	09,7	000,0	04
ET39A	GERENCIA DE PROJETOS	1/2012	030	002	09,8	089,5	02
ET39K	CONTROLE DE CARGA EM SISTEMAS ELETRICOS	2/2012	060	004	08,0	100,0	02
GE37M	MARKETING	1/2013	030	002	08,5	076,5	02
GE38B	GESTÃO DE CUSTOS	2/2012	030	002	10,0	100,0	02
9°. Semestre							
ET39Z	TRABALHO DE CONCLUSÃO DE CURSO 1	1/2013	060	004	09,5	000,0	04
10°. Semestre							
AT61A	ATIVIDADES COMPLEMENTARES	2/2013	180	000	00,0	000,0	24
ES30A	ETICA, PROFISSÃO E CIDADANIA	1/2013	030	002	08,0	100,0	02
ET30Z	TRABALHO DE CONCLUSÃO DE CURSO 2	2/2013	060	004	10,0	-----	04

Fim do Histórico

COLAÇÃO DE GRAU	02 DE OUTUBRO DE 2014	TOTAL HORAS/CRÉDITOS: 4320 / 276

(*) INTERPRETAÇÃO DO CODIGO DE LANÇAMENTO

02-APROVADO POR NOTA/FREQUÊNCIA	05-APROVADO POR SUFICIÊNCIA
03-APROVADO POR FREQUÊNCIA	06-CRÉDITO CONSIGNADO
04-APROVADO POR NOTA	08-DISPENSADO 24-APROVADO

DATA EMISSAO: CORNÉLIO PROCÓPIO, 02 DE OUTUBRO DE 2014
PAGINA: 2/2

Lenir Carnegrão Lucateli
Chefe do Departamento de Registros Acadêmicos

Vania Lucia Delmonico
Departamento de Registros Acadêmicos

Federative Republic of Brazil
Ministry of Education
Federal Technological University of Paraná

Diploma

The President of the Federal Technological University of Paraná, in the exercise of his duties and considering the completion and public defense of the Master's Program Thesis in the Graduate Program in Electrical Engineering and Industrial Informatics, with a concentration in Biomedical Engineering, on April 28, 2021, hereby confers the degree of

Master of Science

upon

Júlio Conforto

Brazilian, born in the city of Maringá, in the state of Paraná, on July 26, 1991, holder of identification document No. 10240201-4/SESP-PR and CPF No. 079.523.439-20, and hereby grants him this Diploma, with all the rights and privileges thereto appertaining.

Curitiba, October 6, 2021.

-----// signature //-----
Graduate

-----// signature //-----
Marcos Flávio de Oliveira Schiefler Filho
President

FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ
Maintaining institution: Federal Technological University of Paraná
CNPJ: 75.101.873/0001-90
Accreditation: Ordinance No. 145 of 02/27/2013, Federal official Gazette No. 40, Section 1, page 33, of 02/28/2013.

MASTER'S PROGRAM
Recognized by MEC Ordinance No. 609, of 03/14/2013, published in the Federal Official Gazette of 03/18/2019.

Federal Technological University of Paraná
Vice-President's Office for Undergraduate Studies and Vocational Education
Department of Diploma Registration

Diploma Process No. 1062336-2021, registered under No. ITFPR-33849, in Book 0068, pursuant to paragraph 1 of Article 48, of Law No. 9,394, of December 20, 1996.

Curitiba, October 25, 2021.

-----// signature //-----
Patrícia Gava Ribeiro
Director of the Department of Diploma Registration

By delegation of authority, in accordance with Article 6 of Decree No. 83,937, of September 6, 1979, and pursuant to Ordinance No. 689, of May 27, 2020, issued by the President of UTFPR.



The design of the diploma frame is based on drawings by the artist, professor, and scientist Lange de Morretes, created for the Paranista Movement (early 20th century), which laid the foundations for a regional identity in the State of Paraná, imbued with the image of progress, science, and technology.
http://docs.utfpr.br/ /[illegible]/ [illegible]/paranismo-html

The pine seed design includes the different institutional names, leading up to the first Technological University in Brazil:
1909 – School of Apprentice Artisans of Paraná
1942 – Technical School of Curitiba
1959 – Federal Technical School of Paraná
1978 – Federal Center for Technological Education of Paraná - CEFET-PR
2005 – Federal University of Technology – Paraná - UTFPR

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: April 4, 2026.**

República Federativa do Brasil
Ministério da Educação
Universidade Tecnológica Federal do Paraná

Diploma

O Reitor da Universidade Tecnológica Federal do Paraná, no uso de suas atribuições, e tendo em vista a conclusão e defesa pública de Dissertação do Curso de Mestrado do Programa de Pós-Graduação em Engenharia Elétrica e Informática Industrial, área de concentração: Engenharia Biomédica, em 28 de abril de 2021, confere o título de

Mestre em Ciências

a

Júlio Conforto

de nacionalidade brasileira, natural da cidade de Maringá, do estado do Paraná nascido em 26 de julho de 1991, portador do documento de identificação nº 10240201-4/SESP-PR e CPF nº 079.523.439-20, e outorga-lhe o presente Diploma, a fim de que possa gozar de todos os direitos e prerrogativas legais.

Curitiba, 06 de outubro de 2021.

Julio conforto
Diplomado

Marcos Flávio de Oliveira Schiefler Filho
Reitor

UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ
Mantenedora: Universidade Tecnológica Federal do Paraná
CNPJ: 75.101.873/0001-90
Credenciamento: Portaria nº 145 de 27/02/2013, D.O.U. nº 40, Seção 01, pág. 33, de 28/02/2013.

CURSO DE MESTRADO
Reconhecido pela Portaria MEC nº 609, de 14/03/2019, publicada no D.O.U. de 18/03/2019.

Universidade Tecnológica Federal do Paraná
Pró-Reitoria de Graduação e Educação Profissional
Departamento de Registro de Diplomas

Diploma do processo nº 1062336-2021, registrado sob o nº UTFPR-33849, no Livro 0068, nos termos do disposto no parágrafo 1º, do Artigo 48, da Lei nº 9.394, de 20 de dezembro de 1996.

Curitiba, 25 de outubro de 2021.

Patricia Gava Ribeiro
Chefe do Departamento de Registro de Diplomas

Por delegação de competência, de acordo com o art. 6º, do Decreto nº 83.937, de 06 de setembro de 1979 e nos termos da Portaria nº 689, de 27 de maio de 2020, do Reitor da UTFPR.



Design da moldura dos diplomas baseado nos desenhos do artista , professor e cientista Lange de Morretes executados para o "Movimento Paranista" . (início do século XX) que lançou as bases de uma identidade regional paranaense impregnada pela imagem de progresso, ciência e técnica.
" https://dhes.ufpr.br/~caorlis/kimanco/paranismo.html

No desenho do pinhão estão as diferentes denominações até a primeira Universidade Tecnológica do Brasil :
1909 - Escola de Aprendizes Artífices do Paraná
1942 - Escola Técnica de Curitiba
1959 - Escola Técnica Federal do Paraná
1978 - Centro Federal de Educação Tecnológica do Paraná - CEFET-PR
2005 - Universidade Tecnológica Federal do Paraná - UTFPR

Ministry of Education
Federal Technological University of Paraná
Curitiba Campus

Stricto-Sensu Graduate Program Academic Transcript

Program Student Information			
Student: 1062336 - Julio Conforto			
Program: 001 - CPGEI - Graduate Program in Electrical Engineering and Industrial Informatics			
Program Type: 243 - Academic Master's			
Concentration area: Biomedical Engineering			
Research Line: Hospital Engineering			
Date of Enrollment: 02/02/2018	**Regular Date:** 02/02/2018	**Date of Defense:** 04/28/2021	**Final Version Submission:** 06/21/2021
Completed Credits: 27	**GPA:** 9.1	**Status:** Graduated	
Advisor: Wilson Jose Da Silva			
Co-Advisor: Fabio Kurt Schneider			

Personal Information			
Father's Name:	João Pedro Conforto		
Mother's Name:	Fatima Carraro Conforto		
	Date of Birth: 07/26/1991	**CPF:** 07952343920	**Passport:** FM249859

Academic Background		
Undergraduate Program:	Electrical Engineering - Emphasis: Electrotechnics	
Institution:	Federal Technological University of Paraná	**Year:** 2014

Courses Taken (C-Grade/FR-Attendance/CR-Credit)

Year/ Term	Course [Credits Qty.]	Group	C	FR	Status	Instructor	Degree	Credit Earned
2018/1	SS0003 - Signals and Systems *[3]*	PGEI	A	100%	Passed by Grade/ Attendance	Marco Jose Da Silva	Doctorate	3
2018/2	EE2251 - Special Topics in Biomedical Instrumentation and Ultrasound *[3]*	PGEI	B	100%	Passed by Grade/ Attendance	Joaquim Miguel Maia	Doctorate	3
2018/3	EH0005 - Hospital Engineering *[3]*	PGEI	A	100%	Passed by Grade/ Attendance	Wilson Jose Da Silva	Doctorate	3
2019/1	ITB0016 - Biomedical Instrumentation and Transduction I *[3]*	PGEI	B	100%	Passed by Grade/ Attendance	Joaquim Miguel Maia	Doctorate	3
2019/1	MC0001 - Scientific Methodology (Cpgei) *[3]*	PGEI	A	92.6%	Passed by Grade/ Attendance	Hugo Vieira Neto	Doctorate	3
2019/3	EE1906 - Special Topics in Decentralized Biomedical Systems *[3]*	PGEI	B	91.7%	Passed by Grade/ Attendance	Fabio Kurt Schneider	Doctorate	3
Total:	**6 course(s)**	**18 credit(s) earned**						

Courses Taken Description

Course	Description
EE1906 - Special Topics in Decentralized Biomedical Systems	Technology push vs. market pull. Biosensors based on conductive polymers. In situ microscopy. Deep learning in digital pathology.
EE2251 - Special Topics in Biomedical Instrumentation and Ultrasound	Basic concepts of biomedical instruments. Sensors for biomedical applications. Basic theory of ultrasound. Ultrasound operating modes and equipment. Techniques for material characterization using ultrasound. Signal processing techniques and ultrasound image formation.
EH0005 - Hospital Engineering	Hospital Engineering (HE): definition, role, education, professional practice, and certification. Accessibility in medical technology. Technology management programs. Management of medical equipment. Information systems and maintenance models for medical equipment. Acquisition of medical equipment. Standards and legislation. Technical standards for medical devices. Accreditation bodies. Electrical safety. Development and operation of a Hospital Engineering Department: requirements, initial program, program management. Ethical aspects in Hospital Engineering practice.
ITB0016 - Biomedical Instrumentation and Transduction I	Basic concepts of biomedical instrumentation. Fundamental transducers and measurement principles: displacement, motion, force, temperature, pressure, flow, radiation, etc. Origin and recording of biopotentials. Electrodes for biopotential measurement. Transducers for gas and ion measurements. Biopotential amplifiers.
MC0001 - Scientific Methodology (Cpgei)	Characteristics of scientific knowledge. Scientific explanations. Axiomatic method. Approaches to research. Procedural methods. Facts, laws, and theories. Variables and sampling. Research planning. Scientific writing. Scientific revolutions.
SS0003 - Signals and Systems	Continuous and discrete signals and systems. Representation of continuous and discrete signals and systems. Definition of linear time-invariant (LTI) systems. Analysis of LTI systems. Fourier transform. Laplace transform. Signal digitization. Z-transform. Fourier transform for discrete signals. Definition and analysis of discrete LTI systems.

Validated Credits - Course/Module

Date	Course	Program	Institution	Grade	Credit(s)

Date	Course	Program	Institution	Grade	Credit(s)
04/19/2018	Biomedical Instrumentation and Transduction II	CPGEI - CT	Federal Technological University of Paraná (UTFPR)	-	3
04/19/2018	Dosimetry and Radiological Protection	CPGEI - CT	Federal Technological University of Paraná (UTFPR)	-	3
04/19/2018	Special Topics in Biomedical Engineering: Translational Research and Technological Innovation	CPGEI - CT	Federal Technological University of Paraná (UTFPR)	-	3
Total:	**3 activities**		**9 credit(s)**		

Language Examination

Type	Language	Examination Date	Status
Proficiency	English	12/28/2020	Passed

Defense

Title:	DENTAL MILLING MACHINES: EVALUATION OF MACHINING QUALITY IN PMMA MATERIAL		
Date:	04/28/2021	**Status:**	Passed

Current Resolution

COENS Resolution No. 36/05, available on the Program's website.

Grade Calculation

The **Grade Point Average (GPA)** is calculated using the following formula: **GPA=Σ(Vi*Ci)/ΣCi**, where:
- Vi corresponds to the conversion of the letter grade into a numerical value, according to the following scale: **A = 10, B = 8, C = 6, D = 4,** and **E = 0**.
- Ci corresponds to the number of credits assigned to the respective course.

Courses with grade I (Incomplete) and validated courses are not included in the GPA calculation.
A student earns the credits assigned to a course upon achieving a minimum final grade of C.
Each credit corresponds to 15 class hours.

Current Status

Total Credits Required: 24	**Total Credits Completed:** 27
Grade Point Average (CR) Required: 7	**Grade Point Average (GPA):** 9.1

Curitiba, November 6, 2024

11/06/2024 12:01 p.m.

This document was electronically signed by **BRENO VESCIA DE SOUZA, Department of Academic Records**, on 11/06/2024, at 12:01 p.m., Brasília official time, pursuant to Article 6, §1, of Decree No. 8,539, dated October 8, 2015.

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I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura.

Date: April 4, 2026.

Ministério da Educação
Universidade Tecnológica Federal do Paraná
Campus Curitiba

UTFPR
UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ

Histórico Escolar de Pós-Graduação Stricto-Sensu

Dados do Aluno no Programa

Aluno: 1062336 - Julio Conforto
Programa: 001 - CPGEI - Programa De Pós-Graduação Em Engenharia Elétrica E Informática Industrial
Curso: 243 - Mestrado Acadêmico
Área Concentração: Engenharia Biomédica
Linha de Pesquisa: Engenharia Hospitalar

Data Matrícula:	**Data Regular:**	**Data de Defesa:**	**Entrega Versão Final:**
02/02/2018	02/02/2019	28/04/2021	21/06/2021
Crédito(s) completado(s): 27	**Coeficiente:** 9,1	**Situação:** Formado	

Orientador: Wilson Jose Da Silva
Co-orientador: Fabio Kurt Schneider

Dados Pessoais

Filiação Pai: Joao Pedro Conforto
Mãe: Fatima Carraro Conforto
Data de nascimento: 26/07/1991 **CPF:** 07952343920 **Passaporte:** FM249859

Formação Acadêmica

Graduação: Engenharia Elétrica - Enfase Eletrotécnica
Instituição: Universidade Tecnológica Federal Do Paraná **Ano:** 2014

Disciplinas Cursadas (C-Conceito/FR-Frequência/CR-Crédito)

Ano/ Período	Disciplina *[Qtde de Créditos]*	Turma	C	FR	Situação	Professor	Titulação	Crédito *Obtido*
2018/1	SS0003 - Sinais E Sistemas *[3]*	PGEI	A	100%	Aprovado Por Nota/Frequência	Marco Jose Da Silva	Doutorado	3
2018/2	EE2251 - Estudos Especiais Em Instrumentação Biomédica E Ultrassom *[3]*	PGEI	B	100%	Aprovado Por Nota/Frequência	Joaquim Miguel Maia	Doutorado	3
2018/3	EH0005 - Engenharia Hospitalar *[3]*	PGEI	A	100%	Aprovado Por Nota/Frequência	Wilson Jose Da Silva	Doutorado	3
2019/1	ITB0016 - Instrumentação E Transdução Biomédica I *[3]*	PGEI	B	100%	Aprovado Por Nota/Frequência	Joaquim Miguel Maia	Doutorado	3
2019/1	MC0001 - Metodologia Científica (Cpgei) *[3]*	PGEI	A	92,6%	Aprovado Por Nota/Frequência	Hugo Vieira Neto	Doutorado	3
2019/3	EE1906 - Estudos Especiais Em Sistemas Biomédicos De Uso Descentralizado *[3]*	PGEI	B	91,7%	Aprovado Por Nota/Frequência	Fabio Kurt Schneider	Doutorado	3
Total:	**6 disciplina(s)**				**18 Crédito(s) Obtido(s)**			

Ementa das Disciplinas Cursadas

Disciplina	Ementa
EE1906 - Estudos Especiais Em Sistemas Biomédicos De Uso Descentralizado	Tech push vs market pull Biosensores baseados em polímeros condutores Microscopia in situ Deep Learning em Patologia Digital
EE2251 - Estudos Especiais Em Instrumentação Biomédica E Ultrassom	Conceitos básicos de instrumentos biomédicos Sensores para aplicações biomédicas Teoria básica sobre ultrassom Modos de operação e equipamentos de ultrassom Técnicas para caracterização de materiais utilizando ultrassom Técnicas para processamento de sinais e formação de imagens de ultrassom
EH0005 - Engenharia Hospitalar	Engenharia Hospitalar (EH): definição, função, formação em EH, profissão de EH, certificação em EH. Acessibilidade em tecnologia médica. Programas de gerenciamento de tecnologia. Gerenciamento de equipamentos médicos. Sistemas de informação e modelos de manutenção de equipamentos médicos. Aquisição de equipamentos médicos. Normas e Legislação. Normas técnicas de equipamentos médicos. Associações de acreditação. Segurança elétrica. Desenvolvimento e operação de um Departamento de Engenharia Hospitalar: requisitos, programa inicial, gerenciamento de programa, Aspectos éticos na prática de Engenharia Hospitalar.
ITB0016 - Instrumentação E Transdução Biomédica I	Conceitos básicos de Instrumentação Biomédica. Transdutores básicos e Princípios de Medição: Deslocamento, movimento, força, temperatura, pressão, fluxo, radiação, etc. Origem e registro de biopotenciais. Eletrodos para medição de biopotenciais. Transdutores para medições de gases e ions. Amplificadores de biopotenciais.
MC0001 - Metodologia Científica (Cpgei)	Características do Conhecimento Científico. Explicações Científicas. Método Axiomático. Métodos de Abordagem. Métodos de Procedimentos. Fatos, Leis e Teorias. Variáveis e Amostragem. Planejamento e Pesquisa. Escritos Científicos. Revoluções Científicas.
SS0003 - Sinais E Sistemas	Sinais e sistemas contínuos e discretos. Representação de sinais e sistemas contínuos e discretos. Definição de Sistemas Lineares e Invariantes no Tempo (LIT). Análise de sistemas LIT. Transformada de Fourier. Transformada de Laplace. Digitalização de sinais. Transformada z. Transformada de Fourier para sinais discretos. Definição e análise de sistemas LIT discretos.

Créditos Validados - Disciplina/Módulo

Data	Disciplina	Programa	Instituição	Conceito(s)	Crédito(s)

Data	Disciplina	Programa	Instituição	Conceito(s)	Crédito(s)
19/04/2018	Instrumentação E Transdução Biomédica Ii	CPGEI - CT	Universidade Tecnológica Federal do Paraná (UTFPR)	-	3
19/04/2018	Dosimetria E Proteção Radiológica	CPGEI - CT	Universidade Tecnológica Federal do Paraná (UTFPR)	-	3
19/04/2018	Tópicos Especiais Em Eb: Pesquisa Translacional E Inovação Tecnológica Em Engenharia Biomédica	CPGEI - CT	Universidade Tecnológica Federal do Paraná (UTFPR)	-	3
Total:	**3 atividade(s)**		**9 crédito(s)**		

Exame de Línguas

Tipo	Idioma	Data do Exame	Situação
Suficiência	Inglês	28/12/2020	Aprovado

Defesa

Título:	FRESADORAS ODONTOLÓGICAS: AVALIAÇÃO DA QUALIDADE DE USINAGEM EM MATERIAL PMMA.		
Data:	28/04/2021	**Situação:**	Aprovado

Resolução Vigente

Resolução Coens 36/05 Disponível Na Página Do Programa.

Cálculo do Coeficiente

O **Coeficiente de Rendimento (CR)** é calculado pela seguinte fórmula:**CR=Σ(Vi*Ci)/ΣCi**, onde:
- Vi corresponde a conversão do valor do conceito para um valor numérico conforme convensão a seguir: **A=10**, **B=8**, **C=6**, **D=4** e **E=zero**.
- Ci corresponde ao número de créditos da respectiva disciplina.

As disciplinas com conceito I (Sem Conclusão) e Validadas não entram no cálculo do CR.
Fará jus aos créditos atribuídos a uma disciplina o aluno que nela obtiver, no mínimo, o conceito final C.
Cada crédito corresponde a 15 horas aula.

Situação Atual

Total créditos exigidos: 24	**Total crédito(s) completado(s):** 27
Coeficiente de rendimento (CR) exigido: 7	**Coeficiente de rendimento (CR):** 9,1

Curitiba, 06 de Novembro de 2024

06/11/2024 12:01

Documento assinado eletronicamente por **BRENO VESCIA DE SOUZA, Departamento de Registros Acadêmicos,** em 06/11/2024, às 12:01, conforme horário oficial de Brasília, com fundamento no art. 6º, § 1º, do Decreto nº 8.539, de 8 de outubro de 2015.

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Informe o Código Verificador: **00359559** e Código CRC: **86621DA3**

Carnegie Evaluations LLC
315 East High Street, Bound Brook, New Jersey, 08805
Email: info@carnegieevaluations.com
Website: www.carnegieevaluations.com
Phone: (848)300-0099
Fax: (848) 300-5199

EVALUATION OF ACADEMICS

Carnegie Evaluations LLC, who specializes in the evaluation of foreign educational credentials, has prepared the following academic credential evaluation.

April 20, 2026

Name: **Mr. Julio CONFORTO**

Following is a description of Mr. Conforto's foreign degree:

Institution:	*Universidade Tecnologica Federal do Parana*
Degree:	*Titulo de Engenheiro Eletricista*
Date of Award:	October 2014
Year of Study:	Five
Country:	Brazil

Institution:	*Universidade Tecnologica Federal do Parana*
Degree:	*Mestre em Ciencias*
Date of Award:	October 2021
Year of Study:	Two
Country:	Brazil

Academic Equivalency in the United States

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING

Carnegie Evaluations LLC, offers this evaluation, after reviewing copies of the original diploma certificates and transcripts provided. This evaluation is advisory in nature and is based on the assumption that the submitted documents are accurate. There are no apparent grounds to disbelieve the authenticity and accuracy of the documentation presented on behalf of Mr. Julio Conforto. In addition, this evaluation is based upon standard scholarly and professional sources as referenced at the end of this document. Carnegie Evaluations LLC, is not responsible for how this evaluation report will be used and is not responsible for damages resulting from such use of this report.

DISCUSSION OF MR. CONFORTO'S ACADEMICS

This credential evaluation is provided upon review of the degree certificates and transcripts awarded to Mr. Julio Conforto during the course of his academic career. An analysis of Mr. Conforto's foreign educational courses for the *Titulo de Engenheiro Eletricista* (translated as degree of Electrical Engineer) and *Mestre em Ciencias* (Translated as Master of Science) from *Universidade Tecnologica Federal do Parana* (translated as Federal Technological University of Parana) forms the basis for the following evaluation.

Mr. Conforto graduated with a degree of Electrical Engineer from Federal Technological University of Parana in October 2014. Federal Technological University of Parana is an accredited institution of higher education in Cornelio Procopio, Brazil. Admission to this program requires graduation from the US equivalent of high school and competitive entrance examinations for admission and enrollment. Mr. Conforto satisfactorily completed the academic course requirements required for a degree of Electrical Engineer program. He majored in Electrical Engineering and was awarded a *Titulo de Engenheiro Eletricista* from the institute.

This is a five-year undergraduate program of study that is equivalent to a degree of Bachelor of Science (B.S.) from an accredited institution of higher education in the United States. The academic criterion maintained by Federal Technological University of Parana is significantly similar to those parameters upheld by any other accredited colleges and universities in the United States.

The *Titulo de Engenheiro Eletricista* curriculum includes advanced bachelor's-level coursework and examinations in Electrical Drawing, Introduction to Electrical Engineering, Physics, Computing, Differential and Integral Calculus, Mathematics, Research Methodology, Electricity and Magnetism, General Mechanics, Chemistry, Electrical Circuits, Electrical Installations Laboratory, Numerical Calculus, Electromagnetism, Electronics, Principles of Strength of Materials, Applied Psychology to Work, Environmental Science, Electrical Machines, Digital Electronics, Electrical Materials and Equipment, Principles of Control, Economics, Probability and Statistics, Power Electronics, Building Electrical Installations, Control Systems, Production Management, Financial Management, Transport Phenomena, Power Systems, Industrial Installations, Microcontroller Systems, Fundamentals of Occupational Safety Engineering, People Management, Methodology Applied to the Undergraduate Thesis, Industrial Substation Design, Tariff Systems and General Conditions for Electric Energy Supply, Intelligent Systems Applied to Engineering, Lighting Engineering, Maintenance Management, Automation and Discrete Control, Industrial Instrumentation, Project Management, Load Control in Electrical Systems, Marketing, Cost Management, and other related subjects.

Thereafter, Mr. Conforto graduated with a Master of Science from Federal Technological University in October 2021. Admission to this program requires graduation from Bachelor level studies and competitive entrance examinations for admission and enrollment. Mr. Conforto satisfactorily completed the academic course requirements required for a Master of Science program. He majored in Biomedical Engineering and was awarded a *Mestre em Ciencias* from the institute.

This is a two-year graduate program of study that is equivalent to a degree of Master of Science (MS) from an accredited institution of higher education in the United States. The *Mestre em Ciencias* curriculum includes advanced graduate-level coursework and examinations in Signals and Systems, Special Topics in Biomedical Instrumentation and Ultrasound, Hospital Engineering, Biomedical Instrumentation and Transduction, Scientific Methodology, Special Topics in Decentralized Biomedical Systems, and completed a thesis project.

Upon reviewing Mr. Conforto's academic history, it becomes apparent that Mr. Conforto has satisfied the coursework requirements, which are substantially similar and equivalent to those required for the completion of a four-year Bachelor's Degree and a Master's degree program at an accredited institution of higher education in the United States.

SUMMARY

On the basis of the academic reputation of Federal Technological University of Parana, the nature and duration of the academic course work, and the grades attained in the courses, it is the judgment of Carnegie Evaluations LLC that Mr. Conforto has attained the equivalent of a Bachelor of Science in Electrical Engineering and Master of Science in Biomedical Engineering from an accredited institution of higher education in the United States.

Carnegie Evaluations LLC represents this evaluation report to be an accurate and correct evaluation to the best of its knowledge and belief, pursuant to requirements of the Citizenship and Immigration Services of the United States Department of Homeland Security. Carnegie Evaluations LLC does not represent that the documentation submitted to it by anyone for evaluation meets the evidentiary standards of any state or federal agency or any court. This evaluation report, as are all such reports provided by Carnegie Evaluations LLC, is advisory for the customer who requested it.

The foregoing evaluation of Mr. Conforto has been reviewed and approved by me, Dr. Zach G. Zacharia, on April 20, 2026.
Sincerely,



Zach G. Zacharia, Ph.D.
Director, Carnegie Evaluations LLC.
Associate Professor of Supply Chain Management
Director, Lehigh Center for Supply Chain Research
Lehigh University

Evaluation Resources:

1. World Higher Education Database. International Association of Universities' Worldwide Database of Higher Education Institutions, Systems and Credentials. www.whed.net.
2. AACRAO EDGE. AACRAO Electronic Database for Global Education. https://www.aacrao.org/edge
3. Central Intelligence Agency (CIA). The World Factbook. https://www.cia.gov/the-world-factbook/
4. ENIC-NARIC. European Network of Information Centres in the European Region, National Academic Recognition Information Centres in the European Union. www.enic-naric.net.

Bio: Professor Zach G. Zacharia

I am the Interim Department Chair, Decision and Technology Analytics (DATA) Department, an Associate Professor of Supply Chain Management, and Director of the Center for Supply Chain Research Lehigh in the College of Business and Economics, Lehigh University, where I teach Graduate and Undergraduate courses in Supply Chain Operations Management and Logistics and Transportation. In addition, I am also a visiting Professor at the Indian Institute of Technology (IIT) in New Delhi, India. I graduated with a B.S. in Mechanical Engineering from the University of Calgary, an MBA from the University of Alberta, and a Ph.D. in Logistics with a minor in Marketing from the University of Tennessee. My current research interests include Collaboration/Coopetition within the Supply Chain, Supplier Satisfaction, and the Physical Internet.

Before joining Academia, I worked at the University of Tennessee, Center for Transportation Research, for six years as an Associate Director. I also worked at the Department of Transportation in Alberta, Canada, for ten years as an Equipment Engineer. I am a principal in BZS Consulting, which primarily focuses on teaching Supply Chain Operations Management and evaluating collaboration and procurement strategies across firms in a supply chain.

I have developed significant international contacts and collaborations with many affiliate schools in several countries in Europe, Asia, and South America. I have evaluated numerous portfolios of international students from countries around the world and have performed in-depth assessments of how these foreign courses are equated to corresponding courses in the United States.

I have 29 refereed publications, including 2 articles in the Journal of Operations Management, 8 articles in the *Journal of Business Logistics,* and articles in *Decision Sciences*, the *Journal of Supply Chain Management, Industrial Marketing Management, International Journal of Production Research, International Journal of Production and Operations Management, International Journal of Logistics Management, Journal of Retailing, Journal of Business and Industrial Marketing, Marketing Management, Supply Chain Management Review, Journal of International Technology and Information Management*, *Journal of Vehicle Design* and *Wall Street Journal*. As a member of a Supply Chain Research Group at the University of Tennessee, I co-authored a book titled "*Supply Chain Management*" (Sage Publications, December 2000). I also contributed a chapter on logistics service providers and new product development in the book titled *Managing Innovation: The New Competitive Edge for Logistics Service Providers*, Stephan M. Wagner ed.**,** Kuehne Foundation Book Series (2007).

Among the awards that Dr. Zacharia has received is the DATA Department Service Award (2023), Staub Faculty Excellence Award (2013) for the College of Business, Lehigh University, Best Paper Finalist (2010) from the Journal of Operations Management, Best Paper Award (2007) from NARTS and Best Dissertation Proposal Award (2000) from University of Arkansas. As a member of a Supply Chain Research Group at the University of Tennessee, he coauthored a book titled Supply Chain Management (Sage Publications, December 2000).

A. Biographical Information

Zach G. Zacharia, Ph.D.
Interim Department Chair, Decision and Technology Analytics Department
Associate Professor Supply Chain Management
Director, Center for Supply Chain Management Lehigh
Supply Chain Management Program Director
Department of Management, College of Business Administration and Economics
Lehigh University, 621 Taylor Street, Bethlehem, PA, 18015
Office: (610) 758-4433, Fax: (610) 758-6941
zgz208@lehigh.edu

EDUCATION

1996 - 2001 **THE UNIVERSITY OF TENNESSEE** **Knoxville, TN**
Doctor of Philosophy in Business Administration

- Major: Logistics, Minor: Marketing
- Dissertation Title: An Analysis of the Effect of Logistics Involvement in Cross-functional Integrated New Product Development Projects (Advisor: Dr. John T. Mentzer)

1988 – 1993 **THE UNIVERSITY OF ALBERTA** **Edmonton, AB**
Master of Business Administration

1981 - 1985 **THE UNIVERSITY OF CALGARY** **Calgary, AB**
Bachelor of Science, Mechanical Engineering

1980 - 1981 **RED DEER COLLGE** **Red Deer, AB**
Bachelor of Science

1979 – 1980 **THE UNIVERSITY OF ALBERTA** **Edmonton, AB**
Bachelor of Science

WORK EXPERIENCE SUMMARY

2016 – Present, Director, Center for Supply Chain Research Lehigh
2013 – Present, Associate Professor – Lehigh University
2008 – 2013 Assistant Professor – Lehigh University
2001 – 2008 Assistant Professor - Texas Christian University
1999 – 2001 Associate Director – Transportation Center, University of Tennessee
1997 – 1999 Assistant Director - Transportation Center, University of Tennessee
1995 – 1997 Senior Research Associate – University of Tennessee
1989 – 1995 Research Engineer – R&D Branch, Alberta Transportation & Utilities
1985 – 1989 Equipment Engineer – Alberta Transportation & Utilities

CONSULTING PROJECTS, EXECUTIVE EDUCATION

2023 Ecofriendly Behavior on Personal Transportation, AFIT, Dalton
2020 Financial Flow in SC, DiCentral, Houston

2020	Expert Witness – Real Estate Company, Bethlehem
2020	Lehigh University, Executive Education, Bethlehem
2019	Lehigh University, Executive Education, Bethlehem
2019	SC Collaboration in Drop Ship, DiCentral, Houston
2018	Coopetition in the Defense Industry, AFIT, Dayton
2018	IIT New Delhi, Executive Education, Delhi, India
2017	Lehigh University, Executive Education, Bethlehem
2016	IIT Madras, Global Initiative of Academic Networks, Chennai, India
2015	Morrison Executive Education, Santo Domingo, Dominican Republic
2014	CSCMP Executive Seminar, Bogota, Columbia
2012	Supply Chain Management Simulation, WAM Systems, Philadelphia
2010	Supply Chain Management Overview, Universidad de Piura, Peru
2007	Procurement of Capability Guidelines, Lockheed Martin Aeronautics
2002	Truck Safety Recommendations, University of Tennessee

B. Publications and Creative Activities

EDITORIAL ROLES (6)

- Senior Associate Editor- *International Journal of Logistics Management (2018-current)*
- Senior Editor- *Journal of Business Logistics (2016- current)*
- Special Issue Editor-(Physical Internet) - *Journal of Business Logistics (2018-2020)*
- Special Issue Editor- (Inter-Disciplinary Research) *Journal of Business Logistics (2014-2015)*
- Editorial Board Member – *Journal of Operations Management*
- Editorial Board Member –*Transportation Journal*
- Editorial Board Member – *Journal of Supply Chain Management*

DISSERTATION COMMITTEE MEMBER (2)

- Michael Plasch - *Supply Chain Collaboration - Investigating Motives, Drivers And Success Factors* – Johannes Kepler University Linz, Austria, 2021
- Kimberly K. Whitehead – *It's A Matter Of Give And Take: Exploring The Role Of Knowledge Transfer Within Supply Chain Collaboration* - University of Texas at Arlington, USA, 2014

BOOK CHAPTERS (5)

- **Zacharia, Zach G**. "Is there a role for Logistics Service Providers in New Product Development?" *Managing Innovation: The New Competitive Edge for Logistics Service Providers*, Stephan M. Wagner ed., Kuehne Foundation Book Series. Ch 7, 2008.
- Mentzer, John T., William J. DeWitt, James S. Keebler, Soonhong Min, Nancy W. Nix, Carlo D. Smith, and **Zach G. Zacharia**, "What is Supply Chain Management" *Supply Chain Management*, Thousand Oaks, CA: Sage Publications, Ch.1, 2000.
- **Zacharia, Zach G**., "R&D and New Product Development in Supply Chain Management" *Supply Chain Management*, John T. Mentzer ed.**,** Thousand Oaks, CA: Sage Publications, Ch.6, 2000.
- **Zacharia, Zach G**., "The Evolution and Growth of Production in Supply Chain Management" *Supply Chain Management*, John T. Mentzer ed., Thousand Oaks, CA: Sage Publications, Ch.8, 2000.
- **Zacharia, Zach G**, "The Evolution and Growth of Information Systems in Supply Chain Management" *Supply Chain Management*, John T. Mentzer ed., Thousand Oaks, CA: Sage Publications, Ch.11, 2000.

REFEREED PUBLICATIONS (29)

29. Varun Jain, Usha Mohan, Zach G. Zacharia, Nada R. Sanders (2022) "Improving patient satisfaction and outpatient diagnostic center efficiency using novel online real-time scheduling" *Operations Research for Health Care,* 32, 1-17, 100338

28. Saif Mir, Misty Blessley, **Zach Zacharia**, John Aloysius (2022) "Mending Fences in the Buyer-Supplier Relationship: The Role of Justice in Relationship Restoration" *Journal of Supply Chain Management*. Vol. 58, No. 3, 23 – 46.

27. Dev, Navin; Ravi Shankar; **Zach Zacharia**, Sanjeev Swami, (2021) "Supply chain resilience for managing the ripple effect in Industry 4.0 for green product diffusion" *International Journal of Physical Distribution & Logistics Management* Vol. 51 No. 8, 897-930.

26. Ballot, Eric, Benoit Montreuil, **Zach G. Zacharia**, (2021) "Physical Internet: First Results and Next Challenges" *Journal of Business Logistics* Vol 42 No. 1, 1 – 7.

25. Treiblmaier, Horst, Kristijan Mirkovski, Paul B. Lowry, **Zach G. Zacharia**, (2020) "The Physical Internet as a New Supply Chain Paradigm: A Systematic

Literature Review and a Comprehensive Framework" *International Journal of Logistics Management* Vol. 31 No. 2, 239-287.

24. **Zach G. Zacharia**, Michael Plasch, Usha Mohan, Markus Gerschberger (2019) "The Emerging Role of Coopetition Within Inter-Firm Relationships" *International Journal of Logistics Management* Vol. 30, No. 2, 414-437.

23. Soonhong Min, **Zach G. Zacharia**, Carlo D. Smith (2019) "Defining Supply Chain Management: In the Past, Present and Future" *Journal of Business Logistics* Vol. 40 No.1, 44-55.

22. Kimberly Whitehead, **Zach Zacharia**, Edmund Prater (2019) "Investigating the Role of Knowledge Transfer in Supply Chain Collaboration" *International Journal of Logistics Management"* Vol. 30, No. 1, 284-302.

21. Misty Blessly, Saif Mir, **Zach G. Zacharia**, John Aloysius (2018) "Breaching Relational Obligations In A Buyer-Supplier Relationship: Feelings Of Violation, Fairness Perceptions And Supplier Switching" *Industrial Marketing Management* Vol. 74, Oct, 215-226.

20. Faraz, Alireza, Nada R. Sanders, **Zach G. Zacharia**, Markus Gerschberger (2018) "Monitoring Type B Buyer-Supplier Relationships" *International Journal of Production Research* Vol. 56, No. 18, 6225-6239.

19. Whitehead, Kimberly, **Zach G. Zacharia**, Edmund Prater, (2016) "Absorptive Capacity Versus Distributive Capability: The Asymmetry of Knowledge Transfer" *International Journal of Operations and Production Management* Vol. 36, No 10, 1308-1332.

18. Nada R. Sanders, Brian R. Fugate, **Zach G. Zacharia**, (2016) "Interdisciplinary Research In SCM: Through the Lens of The Behavioral Theory of The Firm" *Journal of Business Logistics* Vol. 37, No 2, 107-112.

17. Nancy W. Nix, **Zach G. Zacharia,** (2014) "The Impact of Collaborative Engagement on Knowledge and Performance Gains in Episodic Collaborations" *International Journal of Logistics Management* Vol. 25, No 2, 245-269.

16. **Zach G. Zacharia,** Nada R. Sanders, Brian R. Fugate (2014) "The Evolving Role of Disciplines Within Supply Chain Management" *Journal of Supply Chain Management* Vol. 50, No 1, 73-88.

15. Nada R. Sanders, **Zach G. Zacharia**, Brian R. Fugate (2013) "The Interdisciplinary Future of Supply Chain Management Research" *Decision Sciences* Vol. 44, No. 3, 413-429.

14. Geoffrey T. Stewart, **Zach G. Zacharia,** Andrew B. Artis (2012) "Leveraging Relationship Orientation and its Impact on Relationship Outcomes" *Journal of Business and Industrial Marketing,* Vol. 27, No. 8, 644-658.

13. **Zach G. Zacharia,** Nancy W. Nix, Robert F. Lusch (2011) "Capabilities that Enhance Outcomes of an Episodic Supply Chain Collaboration" *Journal of Operations Management*, Vol. 29, No. 6, 591-603.

12. **Zach G. Zacharia,** Nada R. Sanders, Nancy W. Nix (2011) "The Emerging Role of the Third-Party Logistics Provider (3PL) as a Supply Chain Orchestrator" *Journal of Business Logistics*, Vol. 32, No. 1, 40-54.

11. Danny Lanier, Jr., William F. Wempe, **Zach G. Zacharia**, (2010) "Concentrated Supply Chain Membership and Financial Performance: Chain- and Firm-Level Perspectives" *Journal of Operations Management*, Vol.28, No.1, 1-16.

10. **Zach G. Zacharia**, Chad W. Autry, David S. Preston, Charles W. Lamb, (2009) "IT Alignment with Business Strategies in a Healthcare Organizations: An Empirical Analysis" *Journal of International Technology and Information Management*, Vol. 18, No. 3/4, 477-494.

9. **Zach G. Zacharia,** Nancy W. Nix and Robert F. Lusch, (2009) "An Analysis of Supply Chain Collaborations and Their Effect on Performance" *Journal of Business Logistics*, Vol. 30, No. 2, 101-123.

8. Chad W. Autry, **Zach G. Zacharia** and Charles W. Lamb, (2008) "A Logistics Strategy Taxonomy" *Journal of Business Logistics,* Vol. 29. No. 2, 53-74.

7. Nancy W. Nix, Robert F. Lusch, **Zach G. Zacharia**, and Wesley R. Bridges, (2008) "Competent Collaborations" *Marketing Management*, Vol. 17, No. 2, 18-24.

6. **Zach G. Zacharia** and John T. Mentzer (2007) "The Role of Logistics in New Product Development," *Journal of Business Logistics*, Vol. 28, No. 1, 83-110.

    a. Reprinted in:
    b. *Logistique and Management,* Vol. 16, No. 1, 35-53, (2008).

5. **Zach G. Zacharia** and John T. Mentzer (2004) "Logistics Salience In A Changing Environment," *Journal of Business Logistics*, Vol. 25, No. 1, 187-210.

    a. Reprinted in:
    b. *The ICFAI Journal of Supply Chain Management*, Vol. 3, No. 1, 53-72, (2006).

4. Mentzer, John T., William DeWitt, James S. Keebler, Soonhong Min, Nancy W. Nix, Carlo D. Smith, **Zach G. Zacharia** (2001) "Defining Supply Chain Management," *Journal of Business Logistics*, Vol. 22, No. 2, 1-25.

    c. Reprinted in:
    d. *Logistique and Management,* Vol. 9, No. 2, 3-19, (2001).

3. **Zacharia, Zach G**., John E. Tidwell and Stephen H. Richards (2001) "An Overview of Truck and Bus Safety:1999 Knoxville Symposium," *Journal of Vehicle Design*, Vol. 26, No. 4, 442-453.

2. Mentzer, John T., Min Soonhong and **Zach G. Zacharia** (2000) "The Nature of Interfirm Partnering in Supply Chain Management," *Journal of Retailing*, Winter, Vol. 76, Issue 4, 549-568.

1. **Zacharia, Zach G**. and Bart Jennings (1998) "The Use of Active Participation and Group Competition to Facilitate Training and Technology Transfer for Adult Learners," *Transportation Research Record,* No. 1637, 13-18.

PAPERS UNDER REVIEW (2)

- Zach G. Zacharia, Scott C. Ellis, Saif Mir, Robert J. Trent - "Gaining Advantage Through Social Exchange: How and Under What Conditions" (Revise and Resubmit)

- **Saif Mir, Timothy W. Breitbach, Zach G. Zacharia, Benjamin T. Hazen "Supplier Cultivation: An Accelerator Approach to Ecosystem Innovation" (Under Review)**

NON - REFEREED PUBLICATIONS (5)

5. **Zach G. Zacharia** (2020), What Every CFO Needs to Know about Supply Chains

4. **Zach G. Zacharia** (2019), Supply Chain Collaboration in Transformative Vertical Industries (Implications of Omnichannel and Drop Shipping)

3. Robert J. Trent, **Zach G. Zacharia,** (2012) "The Wisdom of Becoming a Preferred Customer," *Supply Chain Management Review* Vol. 16, No. 6, 10-18.

2. Nix, W. Nancy, Robert F. Lusch, **Zach G. Zacharia**, and Wesley R. Bridges, (2007) "The Hand That Feeds You – What Makes Some Collaborations with Suppliers Succeed – When So Many Fail?" *The Journal Report- Business Insight* (A Joint Venture with MIT *Sloan Management Review* and *Wall Street Journal*), Dow Jones and Company

1. **Zacharia, Zach G**. (1994) "Expert System Simplifies Bridge Paint Maintenance Programs," *Materials Performance,* June, 25 - 28.

CONFERENCE PROCEEDINGS (18)

18. **Zach Zacharia**, Timothy Breitbach, Ben Hazen, Saif Mir (2019) "Utilizing Accelerator Programs for adopting Innovations to Encourage the Adoption" *CSCMP Conference,* Anaheim, CA, September 15.
17. **Zach Zacharia**, Timothy Breitbach, Ben Hazen, Saif Mir (2018) "Utilizing Accelerator Programs to Encourage the Adoption of New Innovations in Large Organizations" *DSI Conference,* Chicago, IL, November 17.
16. Robert Weidmer, **Zach Zacharia**, (2018) "Competing Governance Mechanisms in Buyer-Supplier Relationships" *DSI Conference,* Chicago, IL, November 16.
15. **Zach Zacharia**, Michael Plasch, Usha Mohan, Markus Gerschberger (2017) "The Role of Coopetition in Buyer Supplier Relationships" *DSI Conference,* Washington, DC, November 18.
14. **Zach Zacharia**, Michael Plasch, Usha Mohan, Markus Gerschberger (2017) "Understanding the Antecedents and Outcomes of Coopetition" *CSCMP Academic Research Conference,* Atlanta, Georgia, September 24.
13. **Zach Zacharia**, Michael Plasch, Usha Mohan, Markus Gerschberger (2017) "The Evolving Role of Coopetition within the Supply Chain" *CSCMP European Research Seminar,* Barcelona, Spain, May 19.
12. Gouda, Sirish, **Zach Zacharia**, Haritha Saranga (2016) "Linking New Forms of Work Organization and External Integration: Mediating role of cross functional collaboration" *DSI Conference,* Austin, Texas, November 21.
11. Blessley, Misty, Saif Mir, **Zacharia, Zach G.,** John Aloysius (2016) "The role of apologies following transgressions in buyer-supplier relationships." *CSCMP Educator Conference,* Orlando, Florida, September 25.
10. Blessley, Misty, Saif Mir, **Zacharia, Zach G.,** John Aloysius (2016) "The role of transactional and relational psychological contract breach in supplier switching behavior." *CSCMP European Research Seminar,* Vienna, Austria, May 13.
9. Blessley, Misty, Saif Mir, **Zacharia, Zach G.,** John Aloysius (2015) "Should I stay or should I go? The role of transactional and relational psychological contract breach in supplier switching behavior." *CSCMP Educator Conference,* San Diego, California, September 27.
8. **Zacharia, Zach G.,** Nancy W. Nix and Robert F. Lusch (2007) "Supply Chain Collaborations: Project Performance and Business Performance" *18th North American Teaching and Research Conference,* Tempe, Arizona, March 29-31.

7. **Zacharia, Zach G.** (2005) "Team Based Learning in MBA and Undergraduate Supply Chain Management Classes" *16th North American Teaching and Research Conference,* Tempe, Arizona, March 17-19.

6. Nix, Nancy W., **Zach G. Zacharia** and Robert F. Lusch (2005) "Keys to Effective Supply Chain Collaboration" *16th North American Teaching and Research Conference,* Tempe, Arizona, March 17-19.

5. **Zacharia, Zach G.** and Marc E. Ruzicka (2003) "Experiential Learning: Live Business Cases in MBA Supply Management and Logistics Classes" *14th North American Teaching and Research Conference,* Tempe, Arizona , March 21- 23.

4. **Zacharia**, **Zach G** (2000) "The Evolution and Growth of Production in the Supply Chain", *Society for Marketing Advances Conference*, Orlando, Florida, November 8-10.

3. **Zacharia, Zach G**., John E. Tidwell and Stephen H. Richards (2000) "An Overview of Truck and Bus Safety:1999 Knoxville Symposium," *4th International Fatigue Management Conference*, Perth, Australia, March 19-2.

2. **Zacharia, Zach G**. and Bart Jennings (1998), "The Use of Active Participation and Group Competition to Facilitate Training and Technology Transfer for Adult Learners," *Transportation Research Board Conference Proceedings,* Washington, District of Columbia, January 4-8.

1. **Zacharia, Zach G**. (1992), "Bridge Paint Expert Systems"*, Second International Organization for Economic Cooperation and Development (OECD) Conference on Knowledge Based Expert Systems in Transportation*, Montreal, Canada, April 3-7.

CONFERENCE PRESENTATIONS (3)

3. **Zach Zacharia**, (2022) "Identifying and Ranking Supply Chain Risks" *WDSI Conference,* Waikoloa, HI, April 7.

2. Annibal Sodero**, Zach Zacharia**, (2022) "Antecedents and outcomes of drop-shipping adoption in the retail supply chain" Euroama Conference, Berlin, July 3rd

1. Saif Mir**, Zach Zacharia**, (2022) "Risks in Procurement and Sourcing" DSI Conference Houston, November 21

PODCASTS (5)

- **Zacharia, Zach G**. (2021), "Red Flags in the Supply Chain" https://business.lehigh.edu/blog/2021/zach-zacharia-red-flags-supply-chain (July 2nd)

- **Zacharia, Zach G**. (2021), "Red Flags in the Supply Chain" https://business.lehigh.edu/blog/2021/zach-zacharia-red-flags-supply-chain (July 2nd)

- **Zacharia, Zach G**. (2021), "Disruptive New Paradigm of the Physical Internet" https://business.lehigh.edu/blog/2021/zach-zacharia-disruptive-new-paradigm-physical-internet (June 3rd)

- **Zacharia, Zach G**. (2018), "Dealing with Disruptive Innovations in the Supply Chain" (https://cbe.lehigh.edu/blog/posts/dealing-disruptive-innovations-supply-chain) (October 24)

- **Zacharia, Zach G**. (2017), "Drop Shipping: A New Opportunity for Retailers and Suppliers" (https://cbe.lehigh.edu/blog/posts/drop-shipping-new-opportunity-retailers-and-suppliers) December 11

- **Zacharia, Zach G**. (2017), "What You Need to Know About the Physical Internet" (https://cbe.lehigh.edu/blog/posts/what-you-need-know-about-physical-internet (March 14) (Ranked 4th in Google Search for Physical Internet)

WORKING PAPERS (6)

- Zach Zacharia, Michael Plasch, Markus Gerschberger "Explorative and exploitative motives for coopetition" *Target: International Journal of Production Economics*

- Zach Zacharia, Annibal Sodero "Drop Shipping and its Effects on the New E-Commerce Retail Paradigm" *Target: Journal of Operations Management"*

- Zach Zacharia, Robert Wiedmer, Kimberly Whitehead "Competing Governance Mechanisms in Buyer-Supplier Relationships" *Target: Journal of Operations Management*

- Zach Zacharia, Cedric Heuchenne, Nada Sanders, Faraz, Alireza "Comparison of populations based on binary characteristics in the presence of non-response" *Target: Production Operations Management Journal*

- Zach Zacharia, Gopal Kumar "Environmental and social performance leads to supply chain performance? An analysis in context of sustainable collaboration" *Target: Supply Chain Management: An International Journal*

- Zach Zacharia, Benjamin Hazen, Timothy Breitbach, Saif Mir "How Accelerator Programs Facilitate Innovation Adoption in Large Organizations" *Target: Journal of Operations Management*

27. Honors and Awards (25)

2023	DATA Department Service Award, Lehigh University
2018	Teaching Innovation Grant, CBE, Lehigh University
2018	Senior Associate Editor for *International Journal of Logistics Management*
2017	Best Reviewer Award *Journal of Business Logistics*
2016	Editor for *Journal of Business Logistics News*
2016	Associate Editor for *Production Operations Management* Special Issue
2015	Associate Editor for *Journal of Business Logistics*
2015	Member of the *Transportation Journal* Editorial Board
2013	Robert and Christine Staub Faculty Excellence Award
2012	Member of the *Journal of Supply Chain Management* Editorial Board
2011	Best Paper Finalist for 2010 (*Journal of Operations Management*)
2011	Best Paper Award (European DSI Conference)
2010-2011	Council of Supply Chain Management Professional Educator Conference Chair
2010	Member of the *Journal of Operations Management* Editorial Board
2010	Member of the *Journal of Business Logistics* Editorial Board
2009-2010	Supply Chain Management Educator Conference Proceedings Editor
2007-2008	Council of Supply Chain Management Case Editor
2007	Best Paper Award (*NARTS-ISM Conference*)
2006	Tied for highest SPOT (Student Perception of Teaching) score
2005	Highest SPOT (Student Perception of Teaching) in INSC department
2000	Doctoral Dissertation Proposal Award (*University of Arkansas)*
2000	Outstanding Student Paper Award *(Society for Marketing Advances)*
2000	Finalist *(ISBM Doctoral Dissertation Award)*
2000	Scholarly Research Grant Recipient *(University of Tennessee)*
1999, 1997	Fellow *(Council of Logistics Management Doctoral Symposium)*

28. Research Funding (16)

2019	DiCentral – SCM and Financial Flow Research $20,000
2019	Ben Franklin Technology Partners and ESPI $20,000
2018	AFIT – Managing Customer Driven Coopettittion Projects $25,000
2017	DiCentral – Drop Shipment Research $20,000
2014-2015	International Travel Grant - One of 5 recipients selected across the entire University $5000
2011	Faculty Research Grant – Lehigh University (Principal Investigator), Catherine Ridings (Lehigh University) " Does investment in Supply Chain Management and Information Technology provide value for micro firms?" $4500
2009	Summer Research Grant – College of Business and Economics, Lehigh University (Principal Investigator), Nada R. Sanders (Lehigh University, Brian S. Fugate (Colorado State University) *"State of Supply Chain Management: A Visionary Perspective"* $3000
2002-2007	Charles Tandy American Enterprise Center Faculty Research Award *(Texas Christian University)* ($10,000/yr)
2003, 05, 07	Junior Faculty Research Grant *(Institute of Supply Management)* ($750/yr)
2005	Research Center for Teaching Excellence, Faculty Fellow Grant *(Texas Christian University)* ($2500)

F. Scholarly Presentations (79)

- **Zacharia, Zach G.,** "*Supply Chain Collaboration in Transformative Vertical Industries"* Retail Value Chain Federation Conference, Teaneck, New Jersey, May 6, 2019

- **Zacharia, Zach G.,** "*Theoretical and Conceptual Foundations of Supply Chain Management"* PhD Research Seminar, Indian Institute of Technology, New Delhi, January India, January 25, 2018.

- **Zach Zacharia**, Michael Plasch, Usha Mohan, Markus Gerschberger "*The Role of Coopetition in Buyer Supplier Relationships*" *DSI Conference,* Washington, DC, November 18, 2017

- **Zacharia, Zach G.,** "*Utilizing Drop Shipment to Improve Your Bottom Line"* Retail Value Chain Federation Conference, Phoenix, Arizona, November 6, 2017

- **Zach Zacharia**, Michael Plasch, Usha Mohan, Markus Gerschberger "*Understanding the Antecedents and Outcomes of Coopetition*" *CSCMP Academic Research Conference,* Atlanta, Georgia, September 24, 2017

- **Zacharia, Zach G.,** "*Complexity in Supply Chain Management"* PhD Research Seminar, Atlanta, Georgia, September 23, 2017

- **Zacharia, Zach G.,** "*Coopetition Research"* PhD Research Seminar, Atlanta, September 22, 2017

- **Zacharia, Zach G.,** "*Buyer Supplier Relationships"* PhD Research Seminar, Atlanta, September 21, 2017

- **Zacharia, Zach G.,** "*Publishing Research in American Supply Chain Journals"* Indian Institute of Technology, New Delhi, India, July 21, 2017.

- **Zacharia, Zach G.,** "*Transforming Traditional Networks Through the Use of Collaborative Environments"* Supply Chain Leaders in Action Conference, Naples, Florida June 5, 2017

- **Zach Zacharia**, Michael Plasch, Usha Mohan, Markus Gerschberger (2017) "*The Evolving Role of Coopetition within the Supply Chain*" CSCMP European Research Seminar*,* Barcelona, Spain, May 19.

- **Zacharia, Zach G.,** "*Logistics PhD programs in the US panel session"* Logistics Doctoral Symposium, Auburn University, Auburn, February 24, 2017.

- **Zacharia, Zach G.,** "*A Research Journey"* Indian Institute of Technology, Trichy, India, February 6, 2017.

- **Zacharia, Zach G.,** "*Orientation and Firm Infrastructure"* PhD Research Seminar, Logistikum, University of Applied Sciences, Steyr, Austria January 12, 2017

- **Zacharia, Zach G.,** "*Strategy"* PhD Research Seminar, Logistikum, University of Applied Sciences, Steyr, Austria January 11, 2017

- **Zacharia, Zach G.,** "*Conceptual Foundations from Procurement and Operations"* PhD Research Seminar, Logistikum, University of Applied Sciences, Steyr, Austria January 10, 2017

- **Zacharia, Zach G.,** "*Conceptual Foundations from Marketing and Logistics"* PhD Research Seminar, Logistikum, University of Applied Sciences, Steyr, Austria January 9, 2017

- **Zacharia, Zach G.,** "*Theoretical and Conceptual Foundations of Supply Chain Management"* PhD Research Seminar, Logistikum, University of Applied Sciences, Steyr, Austria August 10, 2016

- **Zacharia, Zach G.,** "*Philosophy of Science"* PhD Research Seminar, Logistikum, University of Applied Sciences, Steyr, Austria August 9, 2016

- **Zacharia, Zach G.,** " *Conceptual Foundations of Marketing"* PhD Research Seminar, Logistikum, University of Applied Sciences, Steyr, Austria August 8, 2016

- **Zacharia, Zach G.,** " *Conceptual Foundations of Operations"* PhD Research Seminar, Logistikum, University of Applied Sciences, Steyr, Austria August 10, 2016

- Gouda, Sirish, **Zach Zacharia**, Haritha Saranga (2016) "Linking New Forms of Work Organization and External Integration: Mediating role of cross functional collaboration" *DSI Conference,* Austin, Texas, November 21.

- Blessley, Misty, Saif Mir, **Zacharia, Zach G.,** John Aloysius (2016) "The role of apologies following transgressions in buyer-supplier relationships." *CSCMP Educator Conference,* Orlando, Florida, September 25.

- **Zacharia, Zach G.,** " *Increasing Efficiency and Reducing Cost within a Supply Chain"* Indian Institute of Technology, Madras, India, June 13 2016.

- Blessley, Misty, Saif Mir, **Zacharia, Zach G.,** John Aloysius (2016) "The role of transactional and relational psychological contract breach in supplier switching behavior." *CSCMP European Research Seminar,* Vienna, Austria, May 13.

- Bleasley, Misty, Mir, Saif, **Zacharia, Zach G.,** Aloysius, John " *Should I stay or should I go? The role of transactional and relational psychological contract breach in supplier switching behavior"* Council of Supply Chain Management Educator Conference, San Diego, September 27, 2015.

- **Zacharia, Zach G.,** "*Qualitative and Quantitative Research Paths in SCM"* , University of Arkansas, Fayetteville, Arkansas Feb 27, 2015.

- **Zacharia, Zach G.,** "*Publishing Research in American Supply Chain Journals"* Indian Institute of Management, Bangalore, India, January 13, 2015.

- **Zacharia, Zach G.,** Scott Ellis, Robert J. Trent "*Gaining Advantage Through Social Exchange: How and Under What Conditions"* Production Operation Management Conference, Atlanta, Georgia, May 10, 2014.

- Ellis, Scott, **Zacharia, Zach G.,** Jae-Young Oh "*The Role of Functional Congruence in Cross-Functional and Inter-organizational Collaboration"* Decision Sciences Institute Conference, Baltimore, Maryland, November 19, 2013.

- **Zacharia, Zach G.,** "*Supply Chain Management, Collaboration and their Role Across Businesses and People"* Congress of Latin American Engineering Students, Lima, Peru, October 29, 2013.

- **Zacharia, Zach G.,** Scott Ellis, "*Antecedents to Buyer-Engineer Knowledge Transfer"* Production Operation Management Conference, Denver, Colorado, May 4, 2013.

- **Zacharia, Zach G.,** "*Balancing Effective Research and Teaching"* – Invited Panel Presentation, Council of Supply Chain Management Doctoral Symposium, Atlanta, Georgia, October 1, 2012.

- **Zacharia, Zach G.,** "*What are some of the Factors That Affect the Relationship Between Cross Functional New Product Development and New Product Project Performance?"* Decision Sciences Institute Conference, Boston, Massachusetts, November 22, 2011.

- **Zacharia, Zach G.,** "*Supply Chain Security - An Academic Discussion and Future Research"* Invited Panel Presentation, Decision Sciences Institute Conference, Boston, Massachusetts, November 21, 2011.

- **Zacharia, Zach G.,** "*Conference Chairperson Opening Remarks"* Council of Supply Chain Management Educator Conference, Philadelphia, Pennsylvania, October 2, 2011.

- **Zacharia, Zach G.,** William F. Wempe William and Danny Lanier, Jr. "*Concentrated Supply Chain Membership and Financial Performance: Chain- and Firm-Level Perspectives"* Academy of Management Conference, San Antonio, Texas, August 12 – August 17, 2011.

- **Zacharia, Zach G.** and Catherine M. Ridings *"Does investment in Supply Chain Management and Information Technology provide value for micro firms?"* Production Operations Management Conference, Reno, Nevada, April 28-May 1, 2011.

- **Zacharia, Zach G.** and Robert J. Trent *"Supplier Satisfaction and Innovation Sharing"* Decision Sciences Institute Conference, San Diego, November 20-23, 2010.

- Christoph Bode, Stephan M. Wagner and **Zacharia, Zach G.,** "*The Effect of Cooperation, Supplier Development, and Relationship-Specific Investments on Suppliers' Willingness to Share Innovation"* Decision Sciences Institute Conference, San Diego, November 20-23, 2010.

- **Zacharia, Zach G.** *"Personal Career Development in Academia: What now and How"* Council of Supply Chain Management Professionals Doctoral Symposium, San Diego, September 27, 2010.

- **Zacharia, Zach G.** *"Supply Chain Management Overview"* Executive MBA Program, Universidad de Piura, Piura, Peru, June 12, 2010.

- **Zacharia, Zach G.** *"Supply Chain Management Collaboration Strategies"* CSCMP Roundtable, Lima, Peru, June 11, 2010.

- **Zacharia, Zach G.** and John R. MacDonald *"Are differences in Risk Planning Significant?"* Production and Operations Management Conference, Vancouver, Canada, May 7-10, 2010.

- **Zacharia, Zach G.** and Robert J. Trent *"Supplier Satisfaction – How does it matter?"* Production and Operations Management Conference, Vancouver, Canada, May 7-10, 2010.

- **Zacharia, Zach G.,** Nancy W. Nix, and Robert F. Lusch *"The Moderating Role of Absorptive Capability and Collaborative Communication in Organizational Learning"* 19th *North American Teaching and Research Conference,* Tempe, Arizona, March 11-12, 2010

- **Zacharia, Zach G.** and John R. MacDonald *"Risk Planning: Is it of Value"* Decision Sciences Institute Conference, New Orleans, LA, November 17, 2009.

- **Zacharia, Zach G.** *"When Should New Product Development Managers Consider Distribution Logistics"* Decision Sciences Institute Conference, New Orleans, LA, November 15, 2009.

- John R. MacDonald and **Zacharia, Zach G.** *"Risk and Disruption Management: The Impact of Behavioral Interference"* Behavioral Operations Conference, Syracuse, NY, June 26, 2009.

- **Zacharia, Zach G.,** Nancy W. Nix, and Robert F. Lusch *"The Moderating Role of Absorptive Capability and Collaborative Communication in Organizational Learning"* Production and Operation Management Conference, Orlando, FL, May 2, 2009.

- **Zacharia, Zach G.,** Nancy W. Nix and Robert F. Lusch "Supply Chain Collaborations: Project Performance and Business Performance" *18th North American Teaching and Research Conference,* Tempe, Arizona, March 29-31. (2007)

- **Zacharia, Zach G.,** Nancy W. Nix, and Robert F. Lusch *"The Moderating Role of Absorptive Capability and Collaborative Communication in Organizational Learning"* University of Tennessee, Knoxville, TN, November 7, 2006.

- **Zacharia, Zach G.,** Nancy W. Nix, and Robert F. Lusch *"The Moderating Role of Absorptive Capability and Collaborative Communication in Knowledge Acquisition"* DFWCSMP Roundtable meeting, Dallas, TX, October 12, 2006.

- **Zacharia, Zach G.,** *"Early Supplier Involvement"* National Council for Advanced Manufacturing, Washington, MD, June 7, 2006.

- **Zacharia, Zach G.,** Nancy W. Nix, and Robert F. Lusch *"Keys to Effective Supply Chain Collaboration and Knowledge Acquisition"* National Council for Advanced Manufacturing, Washington, MD, June 7, 2006.

- **Zacharia, Zach G.,** Nancy W. Nix, and Robert F. Lusch *"Keys to Effective Supply Chain Collaboration"* Supplier Network Working Group Meeting, Fort Worth, TX March 16, 2006.

- **Zacharia, Zach G.,** Nancy W. Nix, and Robert F. Lusch *"Keys to Effective Supply Chain Collaboration"* Institute of Supply Management Group Meeting, Fort Worth, Texas, January 3, 2006.

- **Zacharia, Zach G.** "Team Based Learning in MBA and Undergraduate Supply Chain Management Classes" *16th North American Teaching and Research Conference,* Tempe, Arizona, March 17-19. (2005)

- Nix, Nancy W., **Zach G. Zacharia** and Robert F. Lusch "Keys to Effective Supply Chain Collaboration" *16th North American Teaching and Research Conference,* Tempe, Arizona, March 17-19. (2005)

- **Zacharia, Zach G.,** *"Education Strategies"* Council of Logistics Roundtable Leadership Forum, Chicago, Illinois, June 11-12, 2004.
- **Zacharia, Zach G.,** and Nancy W. Nix, *"Supply Chain Collaboration – The role of a 3PL intermediary"* Society of Marketing Advances, New Orleans, Louisiana, November 6 - 8, 2003.
- **Zacharia, Zach G.,** Nancy W. Nix, and Robert F. Lusch *"Collaboration Effectiveness in the Supply Chain: A Knowledge and Capabilities Based Approach"* American Marketing Faculty Consortium, Dallas, Texas, October 30-November 2, 2003.

- **Zacharia, Zach G.,** *"What does it mean to be an education officer in your roundtable?"* Council of Logistics Roundtable Leadership Forum, Chicago, Illinois, June 6-7, 2003.

- Nix, Nancy W. and **Zach G. Zacharia**, Track Chairs "*Going Beyond the Hype: Getting and Measuring the Value from your Supply Chain Initiatives"* Council of Logistics Management Conference, Chicago, Illinois, September 23-27, 2003.
- **Zach G. Zacharia,** *Top 10 Truck Safety Recommendations*, Federal Motor Carrier Safety Administration, Washington, District of Columbia, October 16, 2002.
- **Zach G. Zacharia,** *Logistics Involvement in New Product Development*, University of Arkansas, Fayetteville, Arkansas, September 18, 2002.
- **Zach G. Zacharia,** "Supply and Value Chain Certificate Program" presented at the Supply and Value Chain Conference, Ft. Worth, Texas, February 8, 2002.
- **Zach G. Zacharia,** "*Tennessee Transportation Assistance Program*" presented at the Region 4 LTAP conference, St. Petersburg, Florida, May 16, 2001.
- **Zach G. Zacharia,** "*The Evolution and Growth of Production in the Supply Chain*", *2000 Society for Marketing Advances Conference*, Orlando, Florida, November 8. 2000.
- **Zach G. Zacharia,** and Soonhong Min "*The Nature of Interfirm Partnering in Supply Chain Management*" presented at American Marketing Association, Chicago, Illinois, August 5, 2000.
- **Zach G. Zacharia,** *"Searching the Internet and Web Page Design"* presented at University of Tennessee, Knoxville, Tennessee, April 17, 2000.
- **Zach G. Zacharia,** *"An Overview of Truck and Bus Safety: 1999 Knoxville Symposium* presented at the 4th International Fatigue Management Conference, Perth, Australia, March 19 – 22, 2000.
- **Zach G. Zacharia,** "*Traffic Safety and the Internet*" presented at the Governor Highway Safety Conference, Memphis, Tennessee, July 12-14, 1999.
- **Zach G. Zacharia,** "*Tennessee Transportation Assistance Program*" presented at the Asphalt Emulsion Users Conference, Nashville, Tennessee, November 19, 1998.
- **Zach G. Zacharia** and Barton R. Jennings "*The Use of Active Participation and Group Competition to Facilitate Training and Technology Transfer for Adult Learners*" Transportation Research Board Conference, Washington, District of Columbia, January 10-14, 1998.
- **Zach G. Zacharia,** "*Training Requirements for Local Governments*" presented at the National Transportation Training Conference, Reno, Nevada, October 7-9, 1997.
- **Zach G. Zacharia,** "*Logistics Thought: Key Messages and Implications from the Field of Marketing*," presented at the Council of Logistics Management Doctoral Symposium, Chicago, Illinois, October 3-4, 1997.

- **Zach G. Zacharia,** "*Navigating the Internet*" presented at the Southeast Local Roads Conference, Biloxi, Mississippi, September 24-26, 1997.
- **Zach G. Zacharia,** "*Bridge Paint Expert Systems,"* presented at the Second International Organization for Economic Cooperation and Development (OECD) Conference on Knowledge Based Expert Systems in Transportation, Montreal, Canada, June 14-16, 1992.

G. Teaching and Research Advising

COURSES:

Lehigh University (2008 – Present)

- SCM 186 - Supply Chain Management and Operations (Undergraduate 2008 - present)
- SCM 354 - Logistics and Transportation (Undergraduate 2008-present)
- GBUS 453 – Logistics and Transportation (Graduate 2013 – present)
- GBUS 492- Supply Chain Management Strategy (Graduate 2010- 2015) (Summer Course)
- Advising 14 Supply Chain Management Majors (2021)
- Advising 11 Supply Chain Management Majors (2020)
- Advising 21 Supply Chain Management Majors (2019)
- Advising 5 Supply Chain Management Majors (2018)
- Advising 24 Supply Chain Management Majors (2017)
- Advising 9 Supply Chain Management Majors (2016)
- Advising 27 Supply Chain Management Majors (2015)
- Advising 28 Supply Chain Management Majors (2014)
- Advising 24 Supply Chain Management Majors (2013)
- Advising 9 Supply Chain Management Majors (2012)
- Advising 10 Supply Chain Management Majors (2011)
- Advising 13 Supply Chain Management Majors (2010)
- Advising 6 Supply Chain Management Majors (2009)

Texas Christian University (2001 – 2008)

- Strategic Sourcing and Procurement (Professional MBA) 2007
- Business Simulation (Professional MBA) 2007
- Supply Chain Management Concepts (Full-Time MBA) 2005 – 2008
- Supply Chain Management Concepts (Professional MBA) 2001– 2008
- Logistics and Transportation (Professional MBA) 2001 - 2008
- Supply Chain Tools and Technologies (Professional MBA) 2002
- Logistics and Transportation (Undergraduate) 2001 - 2008
- Supply Chain Management Concepts (Undergraduate) 2003 – 2004
- Supply Chain Tools and Technologies (Undergraduate) 2003
- Procurement and Supply Management (Undergraduate) 2003

University of Tennessee (1996-2001)

- Introduction to Transportation (Undergraduate) Summer 1998
- Introduction to Logistics (Undergraduate) Summer 1999
- Marketing Management (Undergraduate) Spring 2000
- Global Logistics and Transportation (Undergraduate) Summer 2000

H. SERVICE

University

Faculty Compensation Committee (2016 – 2019)

College

Director, Center for Supply Chain Research Lehigh
Promotion and Tenure Committee (2021 – onwards)
Chair, Database and Software Committee (2018 – onwards)
Ph.D. Task Force (2017)
Undergraduate Core Curriculum Committee (2016)
Math Committee to Assess Assessment Results (2010)

Department

BIS Assistant Professor Search Chair – Tenure Track (2021-2021)
SCM Assistant Professor Search Chair – Tenure Track (2020-2020)
DATA Department Chair Search – Tenure Track (2019-2019)
SCM Assistant Professor Search Chair – Tenure Track (2018-2018)
SCM POP Search Chair (2017-2017)
Research Seminar Committee (2010-2011)
SCM Club Faculty Liaison (2009-2019)

Professional (Council of Supply Chain Management Professionals)

Education Committee Member -Lehigh Valley Roundtable (2015-onwards)
President – Lehigh Valley Roundtable (2012-2015)
Education Conference Chair (2010 – 2011)
Education Strategies Committee Member (2007 – 3-year term)
Case Editor (3-year term)
President – Dallas Roundtable (2007-2008)
Vice President – Dallas Roundtable (2006-2007)
Education chair – Dallas Roundtable (2004-2006)
Member (1999 – onwards)

External Service

Rockefeller Group – Expert Service Consulting (Jan 2020)

Exhibit B ELEGIBILITY CRITERIA - Work Records

EMPLOYEE INTELLECTUAL PROPERTY AND SECRECY AGREEMENT

This Employee Intellectual Property and Secrecy Agreement (this "Agreement"), dated 09/23/2025 (the, "Effective Date"), is between me, Julio Conforto the undersigned employee, (" Employee") and Siemens Medical Solutions USA, Inc., including its parents (direct or indirect), affiliates, subsidiaries (direct or indirect), divisions, related entities, partners and all of their respective predecessors, successors and assigns (collectively referred to herein as the "Company"). Parent companies (direct or indirect), affiliates, subsidiaries (direct or indirect), divisions, related entities, and partners of Siemens Medical Solutions USA, Inc. are intended third-party beneficiaries of this Agreement.

In consideration of the Employee's initial and continuing at- will – employment, employment, receipt of training, any payment for honorarium under an inventor incentive program, access to Confidential Information and Trade Secrets, customers, vendors, other benefits associated with the scope and duties of Employee's employment, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Employee agrees as follows:

1. Non-Disclosure Of Confidential Information And Trade Secrets.

(A) As an employee of the Company, Employee has a confidential relationship with the Company and will have access to Confidential Information and Trade Secrets (each as defined below). Employee has a duty to maintain in confidence all such Confidential Information and Trade Secrets to which she/he/they has access.

(B) During Employee's employment and at all subsequent times, s/he will keep secret and maintain in confidence all Confidential Information to which s/he may have access at any time. Employee will not use, publish, communicate, divulge, describe or disclose any such Confidential Information without the prior authorization and consent of the Company.

(i) "Confidential Information" means any information other than Trade Secrets (as defined below) in which the Company has a legitimate protectable business interest, and which the Company has taken reasonable steps to protect and maintain in confidence. Such Confidential information, for example, may be information regarding new products or business transactions or relationships with third parties which have not been released or made generally known to the public by the Company, or compilations of information compiled at the Company's expense and effort which are informative and contain information th at i s not otherwise readily available regarding the Company's business (such as customer lists) and which is of economic value to the Company, the Company's competitors or other knowledgeable users. Information entrusted to the Company by third parties in confidence to which Employee has access shall be treated as Confidential Information under this Agreement.

(ii) The foregoing covenant shall cease to apply to any particular piece of Confidential Information which is no longer maintained in confidence by the Company and which is made or becomes generally known to the trade or general public by authorization of the Company or by other lawful means.

(iii) If and only if the applicable laws of a particular state or jurisdiction specifically require that, in order to be enforceable, this covenant restricting Employee from disclosing or using the Confidential Information of the Company after leaving the employ of the Company must set forth a specific term during which Employee is restricted from disclosing such Confidential Information, Employee's obligations with respect to Confidential Information shall

expire five (5) years after termination, whether voluntary or involuntary, of Employee's employment with the Company.

(C) During Employee's employment and at all times subsequent, s/he will keep secret and maintain in confidence all Trade Secrets to which s/he may have access at any time. Employee will not use such Trade Secrets and will not use, publish, communicate, divulge, describe or disclose any such Trade Secrets at any time without the prior authorization and consent of the Company.

(i) "Trade Secret" means all forms and types of financial, business, scientific, technical, economic, engineering and other information of Company, including patterns, plans, compilations, program devices, formulas, designs, prototypes, methods, techniques, processes, procedures, programs, or codes (in object or source code form), whether tangible or intangible, and whether or how stored, compiled, or memorialized physically, electronically, graphically, photographically, or in writing if (A) Company (and its successors in interest) has taken reasonable measures to keep such information secret and (B) the information derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable through proper means by, another person who can obtain economic value from the disclosure or use of the information.

(ii) The foregoing covenant shall cease to apply to any particular Trade Secret when it ceases to be, no longer qualifies as, and is no longer maintained by the Company (or its successors in interest) as a Trade Secret. Such Trade Secret may however continue to be Confidential Information as defined in Section (B) above.

(iii) If and only if the applicable laws of any particular state or jurisdiction specifically require that, in order to be enforceable, this covenant restricting Employee from disclosing or using the Trade Secrets of the Company after leaving the employ of the Company must set forth a specific term during which Employee is restricted from disclosing or using such Trade Secrets, Employee's obligations with respect to Trade Secrets shall expire ten (10) years after termination, whether voluntary or involuntary, of Employee's employment with the Company.

(D) If and only if the applicable laws of any particular state or jurisdiction specifically require that, in order to be enforceable, the covenants set forth above restricting Employee from disclosing or using the Confidential Information or Trade Secrets of the Company after leaving the employ of the Company must specifically set forth a geographical area in which such restrictions apply, the obligations and restrictions with respect to non-disclosure and use of Confidential Information or Trade Secrets shall apply in each of those states and geographical areas (a) to which Employee was assigned, (b) which were in Employee's geographical area of responsibility; (c) where Employee performed or conducted business for or on behalf of the Company; and (d) where the activity of Employee for or on behalf of the competitive business (1) is, in whole or in part, the same, similar, or substantially related to the activities/duties performed by Employee for the Company, or (2) might reasonably cause Employee to rely upon, use and/or disclose any Confidential Information or Trade Secrets.

(E) All Confidential Information and Trade Secrets shall at all times be and remain the sole and exclusive property of the Company.

(F) Employee will use all reasonable precautions to assure that Confidential Information and Trade Secrets (including written materials, models, mechanisms, devices, drawings), regardless of form or media, are protected and kept from unauthorized persons and unauthorized disclosure and use.

(G) Employee will disclose, deliver, and return promptly to the Company all Confidential Information and Trade Secrets (regardless of form or media) at any time the Company may request, but no later than the termination of Employee's employment, and Employee will not retain any copies.

(H) If Employee is uncertain whether any particular material or information is Confidential Information or a Trade Secret, or neither, Employee will consult his/her immediate supervisor for resolution.

(I) The obligations of this Agreement (including, but not limited to the confidentiality and nondisclosure obligations) do not prohibit Employee from reporting any event that Employee reasonably and in good faith believes is a violation of law to the relevant law-enforcement agency (such as the Securities and Exchange Commission, Equal Employment Opportunity Commission, or Department of Labor), cooperating in an investigation conducted by such a government agency, or disclosing to such a government agency any Confidential Information in a manner that complies with applicable laws. Employee is hereby provided notice that under 18 U.S.C. 1833(b) of the 2016 Defend Trade Secrets Act (hereafter "DTSA"), Employee will not be held criminally or civilly liable under federal or state trade secret law for a trade secret disclosure if the disclosure is made: (i) in confidence to a federal, state, or local government official, either directly or indirectly, or to an attorney, and solely for the purpose of reporting or investigating a suspected violation of law or (ii) in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal so that it is not made public. If Employee files a lawsuit for retaliation by the Company for reporting a suspected violation of law, Employee may disclose the Company's trade secrets to Employee's attorney and use the trade secret information in the court proceeding, if Employee files any document containing the trade secret under seal and does not disclose the trade secret, except pursuant to court order.

(J) Employee hereby agrees that it will not disclose, use or bring into the Company's facilities any confidential information or trade secrets from any third party, including from previous employers.

2. Company Intellectual Property.

(A) Employee agrees that all writings, works of authorship, inventions, innovations, improvements, ideas, discoveries, designs, technology and other work product of any nature, whether or not patentable, reduced to practice or copyrightable, which are conceived, reduced to practice or made by, or caused to be conceived, reduced to practice or made by, Employee alone or with others, whether or not during usual business hours and regardless of where conceived, reduced to practice or made or whose resources are used, during the period of Employee's employment by the Company, whether prior to or after the Effective Date, that relate in any manner to Employee's work with the Company or the Company's business or contemplated business or that relate or involve the use in any manner of any Confidential Information or Trade Secrets, including all patents, copyrights, trademarks, trade secrets and other intellectual property rights therein, shall be the sole and exclusive property of the Company (collectively, the "Company Intellectual Property"). Employee acknowledges that any of the Company Intellectual Property consisting of copyrightable subject matter constitutes a "work made for hire," as that term is defined in the United States Copyright Act, and as such is owned by the Company. To the extent that any of the Company Intellectual Property does not constitute a "work made for hire", Employee hereby assigns and agrees to assign, transfers and conveys to the specific legal entity of Company under which Employee is employed all of Employee's right, title and interest in and to such Company Intellectual Property as well as the right to sue, counterclaim and recover for all past, present and future infringement, misappropriation, dilution or other violation of the Company Intellectual Property. Employee agrees to promptly and fully disclose all of the Company

Intellectual Property to the Company.

(B) Employee's obligations under this Agreement shall continue beyond the termination of Employee's employment with respect to the Company Intellectual Property.

(C) Employee agrees that, as the sole and exclusive property of the Company, the Company is free to use the Company Intellectual Property in any way, in its discretion. The rights of the Company with respect to the Company Intellectual Property may be assigned, transferred, licensed, or sold, in whole or in part, subject to applicable law, without Employee's consent, upon such terms as may be determined by the Company, including without limitation to any successor in interest to the Company, successor in interest to any of the assets or business of the Company, or any third party.

3. No Prior Intellectual Property Rights.

Except as Employee has previously disclosed to the Company in writing, Employee is not an owner of any right, title or interest, nor is Employee the holder of any beneficial interest in, to or under any inventions, patent applications, patents, works of authorship, works in which a copyright right is claimed, applications for copyright registration, copyright registration, trade secrets or any other intellectual property rights.

4. Execution Of Documents.

At any time the Company (or its successor, assign or nominee) requests, either during Employee's employment or after termination thereof, and without charge, but at the Company's (or its successor's, assign's or nominee's) expense, Employee agrees to provide any and all information, documents and other materials in Employee's possession related to the Company Intellectual Property and to review, execute, acknowledge and deliver all such further applications, oaths, assignments, declarations, affidavits, documents and other papers and to perform such other lawful acts as, in the opinion of the Company (or its successor, assign or nominee), may be necessary or desirable to document or effectuate the assignment in Section 2 of this Agreement and to enable the Company (or its successor, assign or nominee) to file and prosecute applications for and to obtain, maintain, protect and enforce any and all patents, copyrights, trade secrets, trademarks and other intellectual property rights with respect to any of the Company Intellectual Property in any and all countries and to vest title thereto in the Company, its successors, assigns or nominees. If Employee does not promptly cooperate with any such request, whether because of Employee's mental or physical incapacity or for any other reason, Employee hereby irrevocably grants the Company power of attorney to execute, acknowledge and deliver any such papers on Employee's behalf and to perform such other lawful acts to document and effectuate the assignment in Section 2 of this Agreement and to apply for, maintain, protect and enforce the Company's rights in the Company Intellectual Property in any and all countries with the same legal force and effect as if executed by Employee.

5. Employee's Obligations Not Contingent Upon Additional Compensation

Employee has not been promised, and agrees not to claim any additional or special payment for complying with any of the obligations in Sections 1-4 of this Agreement.

6. Other Agreements.

This Agreement supersedes and replaces any prior or contemporaneous written or oral undertakings or agreements made between Employee and the Company relating generally to the subject matter of this Agreement, provided, however, this Agreement does not supersede, modify or replace the terms of any non-compete and/or non-solicitation agreement, written employment agreements or benefit plans that contain restrictive covenants.

7. Exception to Assignments Where Applicable.

To the extent applicable based on the state in which Employee is employed by the Company, Employee understands that the Company Intellectual Property does not include, and no provision of this Agreement is intended to require assignment of, any of Employee's rights in any invention that Employee developed entirely on Employee's own time without using any equipment, supplies, facilities, Confidential Information, or Trade Secrets of the Company, except for those inventions that either (A) relate at the time of conception or reduction to practice to the business of the Company or to the actual or demonstrably anticipated research and development of the Company; or (8) result from any work performed by Employee for the Company. Employee shall promptly advise the Company in writing of any inventions that s/he believes meet the criteria for exclusion.

8. Broad Protection Intended for Company.

It is the intent of this Agreement that the Company has the broadest protection allowed by law with respect to the protections of its Confidential Information and Trade Secrets and legitimate business interests. The preceding covenants have been fully considered, and Employee further agrees that such restrictions are both reasonable in duration and geographic scope and required to protect the Company's Confidential Information and Trade Secrets and legitimate business interests.

9. Reform.

If any restriction set forth herein is found by any court of competent jurisdiction to be unenforceable because it extends for too long a period of time or over too great a range of activities or in too broad a geographic area, it shall be interpreted to extend only over the maximum period of time, range of activities or geographic area as to which it may be enforceable.

10. Tolling of Covenants.

If it shall be judicially determined that Employee has violated this Agreement, then the period applicable to each obligation that Employee shall have been determined to have violated shall automatically be extended by a period of time equal in length to the period during which such violation(s) occurred.

11. No Conflicting Obligation.

Employee represents that his performance of all the terms of this Agreement and as an employee of the Company does not and will not breach any agreement to keep in confidence information acquired by him/her in confidence or in trust prior to his employment by the Company. S/He has not entered into, and will not enter into, any agreement either written or oral in conflict with this Agreement.

12. Severability.

This Agreement shall be subject to, and shall be interpreted and construed in accordance with applicable law and public policy. If and to the extent any provision is deemed to be void, invalid, or unenforceable, in whole or in part, in any particular jurisdiction, by reason of being contrary to the applicable law or public policy of such particular jurisdiction, it shall be disregarded and deemed excluded from this Agreement. Such void, invalid, or unenforceable provision shall not affect the remaining provisions, paragraphs, and subparagraphs of this

Agreement which shall be enforceable and which shall continue to be binding.

(A) This Agreement shall be interpreted and construed so as to be enforceable to the furthest extent consistent with and permitted under applicable law and public policy.

(B) Each provision, paragraph, and subparagraph, is separable from every other provision, paragraph and subparagraph, and constitutes a separate and distinct covenant.

13. Governing Law.

This Agreement shall be interpreted and construed in accordance with and governed by the laws of the state of the employee's assigned regular work location.

14. Transferability.

(A) This Agreement and the covenants herein shall inure to the benefit of, be binding on and enforceable by the Company, and its successors and assigns, as express third-party beneficiaries, including without limitation any entity into which the Company or any part of the Company may be consolidated or merged.

(B) This Agreement may not be assigned or transferred by Employee, and Employee may not delegate, assign, or transfer, or attempt to delegate, assign or transfer, any obligation Employee may have pursuant to this Agreement, without the prior consent and agreement of the Company. And any purported assignment in violation of the foregoing will be null and void.

15. Dispute Resolution.

(A) Any and all claims, disputes, and controversies between the Company and Employee with respect to interpretation, construction, breach, enforceability, and/or enforcement of the terms and provisions of this Agreement ("Dispute") shall be finally resolved as provided in this Section by binding arbitration, except for Specific Injunctive Claims. "Specific Injunctive Claims" are defined as those, including but not limited to, seeking restraining orders or injunctive relief to protect the legitimate interests of the Company, preserve the status quo, prevent a breach of confidence, prevent irreparable damage, injury or loss, protect against actual or threatened improper or unauthorized disclosure, use or misappropriation of Company Intellectual Property, Trade Secrets, Confidential Information or other proprietary rights of the Company, or to enforce the covenants in Sections 1 & 2 of this Agreement. Regarding disputes involving Specific Injunctive Claims, the Company shall have the right to apply for and seek both temporary and permanent relief and any and all available remedies in a court of law or equity, state or federal.

(B) Other than Specific Injunctive Claims, arbitration shall be the exclusive means for determination of all matters as above provided, and neither party shall otherwise institute any action or proceeding in any court of law or equity, other than respecting enforcement of the arbitrator's decision or award hereunder. The foregoing shall be a bona fide defense in any action or proceeding where the matter in dispute was to be arbitrated or is being arbitrated pursuant to this Agreement.

(C) The Company (or its successor in interest) or Employee shall have the right to submit a Dispute to arbitration by delivery to the other, by certified mail, of a written notice and demand for arbitration of such Dispute ("Notice"). Arbitration shall be by the American Arbitration Association in accordance with its Rules applicable to such Disputes ("Rules"), by a neutral and impartial arbitrator acceptable to the Company and Employee. If such an arbitrator has not been selected by the Company and Employee within sixty days after giving of

such written notice and demand for arbitration, or within thirty days after the occurrence of a vacancy, a neutral and impartial arbitrator shall be selected and appointed by the American Arbitration Association, in accordance with its Rules. Unless otherwise required under applicable law, the arbitration proceedings shall be conducted in the city where the principal place of business of the Company is situated or a city mutually agreed to by the parties, and the procedural rules of the place of arbitration shall apply. Each party shall be entitled to be represented by legal counsel.

(D) The arbitration proceedings (including discovery and the giving of testimony) shall be conducted in strictest confidence pursuant to a confidentiality agreement signed by the parties and devised to protect the confidentiality of and valuable rights of the Company in the Company Intellectual Property, Confidential Information and Trade Secrets, as well as the confidentiality of any other confidential information included in such proceedings.

(E) The arbitrator shall have the power and authority to make such decisions and awards as he or she deems appropriate, consistent with applicable law.

(F) To the extent applicable law sets particular requirements for the conduct of such arbitration proceedings, such as, any with respect to discovery, cross-examination, testimony, or availability of rights and remedies, the arbitration proceedings shall be conducted in compliance with those requirements.

(G) Subject to applicable law, the arbitrator may award damages, and attorneys' fees and costs to the prevailing party but not punitive or exemplary damages and attorneys' fees and costs related to punitive or exemplary damages, and injunctions that he or she may deem necessary or advisable directed to or against a party, including a direction or order requiring specific performance of any covenant, agreement or provision of this Agreement as a result of a breach or threatened breach. Any decision or award of the arbitrator shall be final, binding, and conclusive upon the parties and said decision and award may be entered as a final judgment in any court of competent jurisdiction.

(H) Subject to applicable law, the costs of such arbitration (including the arbitrator) shall be borne equally by the parties.

16. Effectiveness.

This Agreement shall be binding upon Employee's heirs, executors, administrators and assigns.

17. Changes in Applicable Law.

The law relating to the matters which are the subject of this Agreement, including the restrictions and rights provided for in this Agreement and enforcement thereof, have been evolving and may continue to evolve. To the extent amendment of this Agreement is advisable to meet the requirements of or any changes in applicable law, Employee will, upon the request of the Company, and without further compensation to Employee, amend this Agreement accordingly.

18. Successor Employers.

Employee hereby authorizes the Company to disclose the terms or provide a copy of this Agreement as well as any information the Company deems advisable or relevant regarding Employee's duties and responsibilities and access to Confidential Information and Trade Secrets while employed with the Company, to any future company by whom Employee may be

employed or third parties with whom Employee may do business, and to notify such employers or third parties of the legal rights of the Company arising out of or in conjunction with this Agreement including without limitation any breach or inducement of breach of it.

Agreed (Acceptance of this agreement may be executed electronically, including through Electronic On-Boarding)

EMPLOYEE

Employee Name: Julio Conforto

Employee Signature: Julio Conforto *Electronically signed by: Julio Conforto Reason: Document Execution Date: Sep 23, 2025 17:21:08 EDT*

Date: 09/23/2025

Accepted by COMPANY

Andrea Braz Arrais, Country HR Head, Siemens Medical Solutions USA, Inc.

Employer Signature:

HC HR-50a

Overpayment Repayment Agreement

In the event that Siemens Healthineers erroneously has made a wage overpayment to me, I authorize Siemens Healthineers to deduct from my pay an amount not to exceed the amount of the original overpayment in accordance with the Overpayment Recovery Policy and applicable law.

Furthermore, should my employment at Siemens Healthineers end prior to the repayment of the full amount of the wage overpayment, I authorize a maximum payroll deduction allowed by law to be withheld from my final paycheck, payment of accrued but unused PTO, or any other monies owed to me up to the remaining amount of the wage overpayment. I also agree to repay Siemens Healthineers, upon termination but no later than ten (10) days after my termination of employment, the remaining balance of the debt that has not been repaid via payroll deduction or deducted from my final paycheck. If state law permits, I understand that I may revoke my consent to this agreement by notifying PeopleConnect in writing.

Employee Name: Julio Conforto

Employee Signature: Julio Conforto

Electronically signed by: Julio Conforto
Reason: Document Execution
Date: Sep 23, 2025 17:21:08 EDT

Date: 09/23/2025

EMPLOYEE NONSOLICITATION AGREEMENT

This Employee Non solicitation Agreement ("Agreement") is between Julio Conforto ("the Employee") and 563d Siemens Medical Solutions USA, Inc. (Siemens Legal Entity) and its parent, related or affiliated entities, and subsidiaries for whom Employee performs services or from or about whom Employee receives Confidential Information (defined below) (collectively "the Company") with Employee and Company collective referred to as "the parties."

In consideration of the mutual promises and covenants contained herein, and as a condition of Employee's employment, the parties to this Agreement agree as follows:

1. Obligations as Employee in Position of Trust.

(A) Employee is being placed in a position of trust and confidence with the Company wherein Employee will be provided with one or more of the following: Confidential Information, specialized training, access to Company customers or other important business relationships use d to develop goodwill for the business, and/or intellectual property used in the Company's business (such as research, inventions, or proprietary systems and processes). Employee acknowledges and agrees that during employment with the Company, Employee will abide by a duty of loyalty to the Company and will not undertake any conflicting business activities. Employee will preserve records of Company customers, prospects, suppliers, and other business relationships, and will not knowingly use these records to harm the Company's business interests. Upon termination of employment, Employee will return all such records, and any copies (tangible and intangible) to the Company. Employee understands that he or she is only authorized to access and use the Company's computers, email, or related electronic storage systems ("computer systems") while employed and for the purpose of pursuing matters that are consistent with the Company's business interests. Employee recognizes that access or use of the Company's computer systems to pursue personal business interests apart from the Company, to compete or to prepare to compete, or to otherwise knowingly undermine the Company's interests is unauthorized access and strictly prohibited.

(B) As a condition of employment, Employee has or will enter into an Employee Patent and Secrecy Agreement ("Secrecy Agreement"). The Secrecy Agreement is incorporated herein by reference as if set forth in full, and this Agreement shall be interpreted and applied as a supplement to the Secrecy Agreement intended to add to and not conflict with or eliminate the obligations of Employee provided for in the Secrecy Agreement.

(C) As used herein, "Confidential Information" means information, or a compilation of information, in any form (tangible or intangible), that fit within either the definitions of the Confidential Information or Trade Secrets contained in Employee's Secrecy Agreement with the Company. In this regard, Confidential Information includes but is not limited to Trade Secrets (as defined in Secrecy Agreement) such as the Company's business plans and analysis, customer and prospective customer lists, and research and development data.

(D) As used herein, "solicit" or solicitation refers to any communications undertaken by Employee, or persons under Employee's direction or control, whether initiated by Employee or not, that induce or encourage a particular action or attempt to induce or encourage a particular action (such as ending employment with the Company or diversion of a business opportunity away from the Company). The "Look Back Period" refers to the last two years of Employee's employment with the Company, or such lesser period as the Employee has been employed with the Company if the Employee has been employed with the Company for less than two years at the time of his or her termination. A "customer" refers to any person or entity doing business with the Company, negotiating to do business

with the Company, or to whom a proposal to do business is pending at the time Employee's employment with the Company ends.

(E) Nothing in this Agreement shall be construed to alter the terms and conditions under which Employee's employment may be terminated. Except where Employee is subject to a separate written agreement that provides otherwise, Employee shall be an at will employee.

2. Restrictive Covenants.

Employee's employment in a position of trust and confidence, and the ancillary agreements provided for in this Agreement that are related thereto, give rise to the need for the restrictions provided for in this Agreement. Employee acknowledges that his or her position with the Company provides frequent contact with, and Confidential Information about, existing and potential customers and vendors of the Company in various places throughout the world, and/or exposure to the Company's unique business practices, integrated processes and global operations, which is information and goodwill that would give Employee an unfair competitive advantage if unrestricted and used against the Company.

(A) Non solicitation of Customers.

To protect the Company's legitimate business interests, including its Confidential Information and trade secrets, Employee agrees that for a period of one (I) year after the termination or expiration of employment with the Company, whether voluntarily or involuntarily, Employee will not in person, or through collaboration with or by the direction or control of others, knowingly solicit a customer of the Company that Employee, or persons under Employee's supervision at the Company, had material business dealings with or was provided Confidential Information about in the Look Back Period! for the purpose of (a) selling or providing a competing product or service, (b) diverting business opp01tunities away from the Company, or (c) causing the customer to stop or reduce business activities with the Company. Furthermore, during the above-referenced period, Employee will not solicit any supplier, vendor, consultant or independent contractor of the Company to terminate or alter to the Company's detriment any existing business relationship with the Company. The geographic restrictions in this paragraph are understood to be inherently reasonable in scope because they are limited to the places where said persons and entities do business and/or are available for solicitation. However, for any jurisdiction where an additional geographic restriction is necessary to make this paragraph enforceable, it shall be considered limited in its geographic scope to the lesser of (a) Employee's assigned area of geographic responsibility if Employee is assigned a geographic territory, or (b) those states within the United States, and those comparable political subdivisions of other countries, where that portion of the Company's business that Employee is involved in during the Look Back Period does business or is actively planning to do business at the time Employee's employment with the Company terminates (referred to hereafter as the "Restricted Area").2 If Employee is a resident of California or the Employee's primary work location is California, the restrictions provided for in this paragraph shall be modified to prohibit only activity by Employee that is undertaken with the aid of the Company's trade secrets.

(B) Non solicitation of Employees.

Employee agrees that for a period of one (1) year after the termination or expiration of employment with the Company, whether voluntarily or involuntarily, Employee will not in person, or through the direction or control of others, solicit, or help another person solicit, an employee of the Company to terminate or modify his or her employment relationship with the Company, nor will Employee hire or assist in hiring (either in person, or as an agent or representative of any business entity) an employee of the Company. For any jurisdiction where an additional geographic restriction is necessary to make this paragraph enforceable, it shall be limited in its geographic scope to

the Restricted Area. If Employee violates this paragraph, in addition to injunctive relief prohibiting further violations, Employee will pay the Company 30% of the previous 12 month's wages of any employee that the Company loses as a result of, in whole or in part, Employee's violation of this Agreement as a liquidated damage to help compensate for the cost of replacing the departed employee. It is understood that this liquidated damage is a reasonable estimate of damages, and it is not a penalty. Furthermore, such a liquidated damage is an incomplete remedy and will not substitute for injunctive relief where such is available. If Employee is a resident of California or the Employee's primary work location is in California, the post-employment restriction on hiring an employee of the Company provided for in this paragraph 2(B) shall not apply and the remaining obligations of this Agreement will apply.

(C) Reasonableness of Restrictions.

Employee acknowledges that the restrictions provided for in this Agreement are reasonable and necessary to protect legitimate business interests of the Company (such as trade secrets and confidential information entrusted to Employee), and do not place an unreasonable burden on Employee's ability to earn a living. Employee acknowledges that the Company is engaged in business throughout the world and unequivocally agrees that the geographic scope of the restrictive covenants is reasonable in light of the geographically broad scope of doing business on such a global basis. Employee further acknowledges that the Company conducts business through the Internet and other means of electronic connectivity of information ("other electronic means"), and that the scope of this provision is therefore co-extensive with the scope of the Company's business through the Internet and other electronic means.

(D) Remedies.

A violation of this Agreement by Employee would cause not only actual and compensable damage, but also irreparable harm and continuing injury to the Company, for which there would not be an adequate remedy at law. Employee acknowledges and agrees that a violation of any of the Employee's obligations under this Agreement will cause or result in irreparable harm and damage to the Company and the full amount of such damages cannot be readily ascertained. For this reason, the Company will be entitled, without posting any bond whatsoever (where permitted by law), to a temporary restraining order and to an injunction permanently enjoining and prohibiting violation hereof by the Employee or any person acting directly or indirectly on the Employee's behalf. The equitable relief provided in this section is not intended as an exclusive remedy, but will be in addition to, and not in limitation of, any other rights or remedies of the Company. An election to obtain such equitable relief does not preclude any other remedies available to the Company at law, in equity or under this Agreement. The existence of an independent claim or cause of action by Employee against the Company shall not serve as a defense or bar to the Company's remedies under this Agreement in the event of breach by Employee.

3. Other Agreements.

This Agreement, inclusive of the Employee Patent and Secrecy Agreement ("Secrecy Agreement") incorporated herein by reference, contains all of the terms and conditions of the matters agreed upon in it and replaces any prior oral agreements between the parties concerning the same subjects. Notwithstanding the foregoing, this Agreement shall be construed to supplement and support, and not to replace, eliminate, or diminish any written agreements in place between the parties containing restrictive covenants on Employee's conduct that protect the Company's trade secrets, confidential information, inventions, copyrights, and other intellectual property, such as the Employee Patent and Secrecy Agreement that Employee is also required to sign as a condition of employment. Furthermore, this Agreement does not supersede, modify or replace the terms of any written employment agreements, Company guidelines or policies, or benefit plans that contain independent restrictive covenants applicable to Employee.

4. Broad Protection Intended for Company.

It is the intent of this Agreement that the Company has the broadest protection allowed by law with respect to the restrictive covenants. The preceding covenants have been fully considered, and Employee further agrees that such restrictions are both reasonable in duration and geographic scope and are required to protect the Company's legitimate business interests.

5. Reform.

If any restriction set forth herein is found by a court of competent jurisdiction to be unenforceable as written, (for example, if the length of time, geography, or range of activities restricted is found too broad), then the court will (for purposes of that jurisdiction only) modify the unenforceable terms as needed to make the restriction enforceable to the maximum extent allowed by law within that jurisdiction. The parties consent to such a modification process and specifically request it as a material part of this Agreement.

6. Tolling of Covenants.

If it shall be determined by a court of competent jurisdiction that Employee has violated one of the post-employment restrictions provided for in this Agreement, then the period applicable to such post-employment restriction shall automatically be extended by a period of time equal in length to the period during which such violation(s) occurred up to a maximum extension of time equal to the period of restraint the Employee was originally obligated to comply with so that the Company is given the benefit of compliance (through injunctive relief or otherwise) that is the same as the length of time originally agreed upon for the restriction.3

7. No Conflicting Obligation.

Employee represents and warrants that Employee is not prevented or restricted from entering into this employment relationship with the Company, or restricted or limited in the scope of services that Employee can perform on behalf of the Company by any agreement, judgment, decree, order, or other restraint, except as has been expressly disclosed in writing to the Company. In performing services for the Company, Employee shall not disclose or use any trade secret, confidential, or proprietary information belonging to any third-party including previous employers. Employee also agrees to comply with any existing obligations that Employee may have to any third party, Employee has not entered into, and will not enter into, any agreement either written or oral in conflict with this Agreement.

8. Severability and Waiver.

The provisions of this Agreement shall be considered fully severable. Subject to, and only after application of Paragraph 5, if any part or provision of this Agreement is deemed to be void, invalid, or unenforceable, in whole or in part, in any particular jurisdiction, by reason of being contrary to the applicable law or public policy of such particular jurisdiction, the offending part or provision shall be disregarded and deemed excluded from this Agreement. Such void, invalid, and unenforceable part or provision shall not affect the remaining parts or provisions, paragraphs, and subparagraphs of this Agreement which shall be enforceable and which shall continue to be binding. Any failure by any party to exercise its rights or remedies hereunder or any delay in asserting rights or remedies shall not be construed as a waiver of such rights or remedies, and no waiver of a right or remedy shall apply unless such waiver is expressly made in writing by the party with whom the waived right or remedy rests.

9. Governing Law.

This Agreement shall be interpreted and construed in accordance with and governed by the laws of the state of the employee's assigned regular work location, without regard to any conflicts of laws, principles or rules to the contrary.

10. Succession and Transferability.

(A) Employee agrees that this Agreement shall automatically inure to the benefit of any successor or assign of the Company without the need for any more action or consent by him or her. The rights of the Company hereunder may be assigned, transferred, licensed, or sold, in whole or in part, subject to applicable law, without the need for any further consent from Employee, upon such terms as may be determined by the Company, including without limitation to any successor in interest to the Company, successor in interest to any of the assets or business of the Company, or any third party.

(B) This Agreement and the covenants herein shall inure to the benefit of, and be enforceable by, the Company, and its parents, subsidiaries, successors and assigns, as express third-party beneficiaries4, including without limitation any entity into which the Company or any part of the Company may be consolidated or merged. As used herein, references to restrictions used to protect the property and interests of the Company will be understood to include protection of the property and interests of any subsidiary, affiliate, or parent of the Company with which Employee has any material involvement.

(C) Employee's obligations under this Agreement are personal in nature. This Agreement may not be assigned or transferred by Employee, and Employee may not delegate, assign, or transfer, or attempt to delegate, assign or transfer, any obligation Employee may have pursuant to this Agreement, without the prior consent and agreement of the Company.

(D) This Agreement shall be binding upon Employee's heirs, executors, administrators and assigns.

11. Changes in Applicable Law & Preservation of General Legal Duties.

The law relating to the matters which are the subject of this Agreement, including the restrictions and rights provided for in this Agreement and enforcement thereof, has been evolving and may continue to evolve. To the extent amendment of this Agreement is advisable to meet the requirements of or any changes in applicable law, Employee will, upon the request of the Company, and without further compensation to Employee, amend this Agreement accordingly. Nothing in this Agreement will be construed to eliminate, reduce or diminish Employee's common law or statutory duties and obligations to the Company as an employee/agent that would be in effect absent this Agreement, or the Company's remedies for a breach of these duties.

12. Statement of Position to Third Parties.

Employee hereby authorizes the Company to disclose the terms or provide a copy of this Agreement as well as the Company's opinion on the application of this Agreement and any information the Company deems advisable or relevant regarding Employee's duties and responsibilities while employed with the Company, to any future company by whom Employee may be employed or third parties with whom Employee may do business.

Employee agrees to provide a copy of this Agreement to any employer or third party for whom employee works or provides services at any time within the period of one (1) year after the termination or expiration of employment with the Company. Employee shall have the right to disagree with the Company's opinion about application of this

Agreement, but in no event shall the Company's expression of its opinion to a third party, employer or prospective employer be grounds for a legal action against the Company by Employee.

Agreed (Acceptance of this agreement may be executed electronically)

EMPLOYEE

Date
09/22/2025

Electronically signed by: Julio Conforto
Reason: Document Execution
Date: Sep 23, 2025 17:21:08 EDT

EMPLOYER

Andrea Braz Arrais
Country HR Head, NAM

To Whom It May Concern,

We declare that JULIO CONFORTO, National Employment ID Number N# 2770885 Series **00020/PR**, CPF N# **07952343920** was an employee at Siemens Group, duly registered under the CLT regime from **OCTOBER 01st 2014** to **APRIL 07th 2025**, and his last performed function was of **TECHNICAL SUPPORT ENGINEER SHS.**
We also declare that **JULIO CONFORTO** exercised the following functions as a **TECHNICAL SUPPORT ENGINEER SHS** at our company:

- **TECHNICAL SUPPORT ENGINEER** (October 2014 – April 2025) The primary responsibility of this position is to perform both corrective and preventive maintenance, along with software/hardware updates, on advanced medical imaging equipment including MRI (Magnetic Resonance Imaging) and CT (Computed Tomography) systems for healthcare facilities such as hospitals and medical clinics.
- **FIRST LEVEL SUPPORT IN MR** (October 2022 – April 2025), **worked on a rotating shift schedule as part of the Magnetic Resonance (MR) Support Team**, adhering to deadlines set by management. Responsible for remotely identifying MRI system failures reported via customer service tickets from across Brazil and defining the initial action plan to be carried out by on-site Customer Service Engineers.
- Responsible for carrying out first and second level support remotely and (preferably in person with the Primary CSE) for equipment marketed by Siemens Healthineers;
- Be able to diagnose defects, incidents and problems in equipment according to real needs, using the pillars of problem solving (abstraction, decomposition, systematized analysis and pattern recognition), provide guidance on quality and regulatory processes according to the individual implications of each service, when not using their own resources and

knowledge, through the network of contacts (HSC/R&D/DCU and other CS departments at the BL headquarters).

For verification, please contact:

Daniel de Sousa Albino

LATAM Remote Services Center Manager

Siemens Healthineers

albino.daniel@siemens-healthinees.com | +55 11 9 5776-5340

Albino Daniel De Sousa

Assinado digitalmente por Albino Daniel De Sousa
DN: cn=Albino Daniel De Sousa, c=DE, o=Siemens, email=albino.daniel@siemens-healthineers.com
Motivo: Sou o autor deste documento
Data: 2025.08.01 11:09:55 -03'00'

Sincerely,

Daniel de Sousa Albino

Digital Employment Record Book

Date of issue: 11/18/2022

Personal Details

Legal name
JULIO CONFORTO

CPF
079.523.439-20

Nationality
Brazilian

Mother's name
FATIMA CARRARO CONFORTO

Employment contracts

10/01/2014 - 04/07/2025

Date of the projection of the notice period
06/06/2025

Employer
SIEMENS HEALTHCARE DIAGNOSTICOS LTDA.
CNPJ RAIZ: 01.449.930

Establishment
SIEMENS HEALTHCARE DIAGNOSTICOS LTDA.
CNPJ: 01.449.930/0010-80
RUA PASTEUR 463 SUITE 1303 13TH FLOOR CENTRO EMPRESA BUILDING COMPLEX 80250104 AGUA VERDE CURITIBA PARANÁ

Position
SHS TECHNICAL SUPPORT ENGINEER

CBO - Position
2143-05

*CBO: Brazilian Occupation Classification

Contract type
Indefinite term

Contractual salary
R$13,614.25 per month

Employment status
Employee

Hiring type
Transfer from a company within the same economic group

Source of information
ESOCIAL ***(Digital Bookkeeping System for Fiscal, Social Security, and Labor Obligations)***

NOTES

04/07/2025 - Contract Termination

10/01/2024 - Salary defined as R$13,614.25 Per month, effective as of

Document digitally signed by Dataprev on 04/16/2025.
This document is only valid when accompanied by an official identification document.

Digital Employment Record Book

Date of issue: 11/18/2022

NOTES

06/01/2024

10/01/2024 - Employment status defined as Employee

08/21/2024 - Vacation 08/21/2024 to 09/09/2024 Reference Period: 10/01/2022 to 09/30/2023

02/01/2024 - Salary defined as R$12,965.95 Per month, effective as of 06/01/2023

12/20/2023 - Vacation 12/20/2023 to 12/29/2023

09/11/2023 - Vacation 09/11/2023 to 09/29/2023

05/22/2023 - Vacation 05/22/2023 to 06/01/2023

11/01/2022 - Salary defined as R$12,290.00 Per month, effective as of 06/01/2022

09/12/2022 - Vacation 09/12/2022 to 09/25/2022

09/01/2022 - Vacation 09/01/2022 to 09/06/2022

03/21/2022 - Salary defined as R$10,943.90 Per month

11/25/2021 - Vacation 11/25/2021 to 12/04/2021 reference period not available due to the eSocial version used

09/15/2021 - Salary defined as R$10,040.28 Per month

08/02/2021 - Vacation 08/02/2021 to 08/31/2021 reference period not available due to the eSocial version used

04/01/2021 to (current) - Position held: SHS TECHNICAL SUPPORT ENGINEER

03/01/2021 - Salary defined as R$8,032.22 Per month, effective as of 03/01/2020

09/08/2020 - Vacation 09/08/2020 to 09/27/2020 reference period not available due to the eSocial version used

06/01/2020 - Vacation 06/01/2020 to 06/10/2020 reference period not available due to the eSocial version used

11/01/2019 - Salary defined as R$7,729.23 Per month, effective as of 11/01/2019

11/01/2019 to (current) - Position held: HEA TECHNICAL SUPPORT ENGINEER

08/05/2019 - Vacation 08/05/2019 to 09/03/2019 reference period not available due to the eSocial version used

08/27/2018 - Vacation 08/27/2018 to 09/25/2018

Document digitally signed by Dataprev on 04/16/2025.
This document is only valid when accompanied by an official identification document.

Digital Employment Record Book

Date of issue: 11/18/2022

NOTES

07/01/2018 to (current) - Position held: HEA JUNIOR TECHNICAL SUPPORT ENGINEER

05/01/2018 - Salary defined as R$7,418.60 Per month, effective as of 05/01/2018

12/01/2014 to 04/07/2025 - CBO Position held 2143-05

10/01/2014 - Salary defined as R$6,926.80 Per month

10/01/2014 - Contract type defined for Indefinite term

10/01/2014 - Establishment defined as SIEMENS HEALTHCARE DIAGNOSTICOS LTDA.

10/01/2014 to (current) - Position held: JUNIOR TECHNICAL SUPPORT ENGINEER

10/01/2014 to 11/30/2014 - CBO Position held 2521-05

10/01/2014 - Hiring

Document digitally signed by Dataprev on 04/16/2025.
This document is only valid when accompanied by an official identification document.

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 29, 2026.

Carteira de Trabalho Digital

Data de emissão: 18/11/2022

Dados Pessoais

Nome civil
JULIO CONFORTO

CPF	Sexo	Data de nascimento	Nacionalidade
079.523.439-20	**Masculino**	**26/07/1991**	**Brasileiro**

Nome da mãe
FATIMA CARRARO CONFORTO

Contratos de trabalho

01/10/2014 - 07/04/2025

Data da projeção do aviso prévio indenizado
06/06/2025

Empregador
SIEMENS HEALTHCARE DIAGNOSTICOS LTDA.
CNPJ RAIZ: 01.449.930

Estabelecimento
SIEMENS HEALTHCARE DIAGNOSTICOS LTDA.
CNPJ: 01.449.930/0010-80
R PASTEUR 463 CONJ 1303 ANDAR 13 COND CD ED CENTRO EMPRESA
80250104 AGUA VERDE CURITIBA PR

Cargo	CBO Cargo
ENGENHEIRO ASSIST TECNICA PL SHS	**2143-05**

Tipo de contrato
Prazo indeterminado

Salário contratual
R$ 13.614,25 por mês

Relação de trabalho
Empregado

Tipo de admissão
Transferência de empresa do mesmo grupo econômico

Fonte da informação
ESOCIAL

ANOTAÇÕES

07/04/2025 - Rescisão Contratual

01/10/2024 - Salário definido para R$ 13.614,25 Por mês , com efeito a partir de

Documento assinado digitalmente pela Dataprev em 16/04/2025.
Este documento somente é válido acompanhado de um documento de identificação oficial.

ANOTAÇÕES

01/06/2024

01/10/2024 - Relação de trabalho definida para Empregado

21/08/2024 - Férias 21/08/2024 a 09/09/2024 Período aquisitivo: 01/10/2022 a 30/09/2023

01/02/2024 - Salário definido para R$ 12.965,95 Por mês , com efeito a partir de 01/06/2023

20/12/2023 - Férias 20/12/2023 a 29/12/2023

11/09/2023 - Férias 11/09/2023 a 29/09/2023

22/05/2023 - Férias 22/05/2023 a 01/06/2023

01/11/2022 - Salário definido para R$ 12.290,00 Por mês , com efeito a partir de 01/06/2022

12/09/2022 - Férias 12/09/2022 a 25/09/2022

01/09/2022 - Férias 01/09/2022 a 06/09/2022

21/03/2022 - Salário definido para R$ 10.943,90 Por mês

25/11/2021 - Férias 25/11/2021 a 04/12/2021 período aquisitivo não disponível em razão da versão do eSocial utilizada

15/09/2021 - Salário definido para R$ 10.040,28 Por mês

02/08/2021 - Férias 02/08/2021 a 31/08/2021 período aquisitivo não disponível em razão da versão do eSocial utilizada

01/04/2021 a (atual) - Cargo exercido de ENGENHEIRO ASSIST TECNICA PL SHS

01/03/2021 - Salário definido para R$ 8.032,22 Por mês , com efeito a partir de 01/03/2020

08/09/2020 - Férias 08/09/2020 a 27/09/2020 período aquisitivo não disponível em razão da versão do eSocial utilizada

01/06/2020 - Férias 01/06/2020 a 10/06/2020 período aquisitivo não disponível em razão da versão do eSocial utilizada

01/11/2019 - Salário definido para R$ 7.729,23 Por mês , com efeito a partir de 01/11/2019

01/11/2019 a (atual) - Cargo exercido de ENGENHEIRO ASSIST TECNICA HEA PL

05/08/2019 - Férias 05/08/2019 a 03/09/2019 período aquisitivo não disponível em razão da versão do eSocial utilizada

27/08/2018 - Férias 27/08/2018 a 25/09/2018

Documento assinado digitalmente pela Dataprev em 16/04/2025.
Este documento somente é válido acompanhado de um documento de identificação oficial.

ANOTAÇÕES

01/07/2018 a (atual) - Cargo exercido de ENGENHEIRO ASSIST TECNICA HEA JR

01/05/2018 - Salário definido para R$ 7.418,60 Por mês , com efeito a partir de 01/05/2018

01/12/2014 a 07/04/2025 - CBO Cargo exercido 2143-05

01/10/2014 - Salário definido para R$ 6.926,80 Por mês

01/10/2014 - Tipo de contrato definido para Prazo indeterminado

01/10/2014 - Estabelecimento definido para SIEMENS HEALTHCARE DIAGNOSTICOS LTDA.

01/10/2014 a (atual) - Cargo exercido de ENGENHEIRO ASSISTENCIA TECNICA JR

01/10/2014 a 30/11/2014 - CBO Cargo exercido 2521-05

01/10/2014 - Admissão

Documento assinado digitalmente pela Dataprev em 16/04/2025.
Este documento somente é válido acompanhado de um documento de identificação oficial.

Exhibit C.I - First Prong – Substantial Merit and National Importance:

BUSINESS PLAN





2026

Name: Julio Conforto
Phone: +1 (734) 582-3416
E-mail: conforto.julio@gmail.com
Position: Founder, General Manager & Chief Domain Officer

Prepared by:
Nextus Plan

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APPENDIX 1

1.0 Executive Summary

Imaging Energy Optimization (IEO) Company will be established by Mr. Julio Conforto as a national, vendor-neutral Software-as-a-Service (SaaS) platform that optimizes energy consumption in hospital Magnetic Resonance Imaging (MRI) and Computed Tomography (CT) diagnostic imaging infrastructure. The company will be headquartered in the Detroit metropolitan area, Michigan, and will deliver its services to U.S. hospitals, multi-site healthcare systems, outpatient imaging centers, and rural community hospitals through a cloud-based platform accessible nationwide.

The company will deliver four core service lines: a per-system MRI energy intelligence subscription, a per-system CT energy intelligence subscription, hospital implementation and integration services, and strategic advisory services. The platform combines real-time and historical electricity-consumption analytics at the modality level, demand-charge impact modeling, load-shifting simulations, operational optimization recommendations, multi-facility benchmarking, and a proprietary Imaging Energy Efficiency Index (IEEI) score for each connected hospital. The architecture is intentionally non-invasive and vendor-neutral, meaning the platform operates independently from medical-equipment manufacturers such as Siemens Healthineers, GE HealthCare, and Philips Healthcare, ensuring broad applicability across heterogeneous hospital imaging fleets.

IEO Company addresses an unfilled niche in the U.S. healthcare energy market. Hospital inpatient facilities are among the most energy-intensive commercial buildings in the United States, with energy intensity of approximately 193 kBtu per square foot, more than 2.5 times that of a typical commercial building. U.S. healthcare facilities collectively spend more than $9.7 billion annually on energy.[1][2] Within hospital electrical loads, MRI and CT diagnostic imaging systems are uniquely wasteful: a single 1.5T MRI scanner consumes approximately 100,000 to 135,000 kilowatt-hours per year, of which 31 to 43 percent is consumed in stand-by mode because superconducting magnets cannot simply be switched off.[3][4] Peer-reviewed off-hours power-down studies have documented per-device savings of $9,225 to $14,328

[1] U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey (CBECS) 2018, Healthcare Buildings*.
https://www.eia.gov/consumption/commercial/pba/health-care.php
[2] U.S. Department of Energy, *Better Buildings — Healthcare Sector*.
https://betterbuildingssolutioncenter.energy.gov/sectors/healthcare
[3] Heye et al., *Radiology* (RSNA), *The Energy Consumption of Radiology*, 2020.
https://pubs.rsna.org/doi/full/10.1148/radiol.2020192084
[4] Bohm et al., *European Radiology* (Springer), *MRI Energy Consumption Patterns*, 2024.
https://link.springer.com/article/10.1007/s00330-024-11056-0

per year with zero capital expenditure, which is precisely the savings opportunity that a software optimization layer can capture at scale.[5]

The need is compounded by an accelerating U.S. electricity-price environment. Commercial-sector electricity prices increased 5.5 percent from 2020 to 2022 and 4.5 percent from 2022 to 2024, and U.S. Energy Information Administration forecasts indicate continued upward pressure as data-center electricity demand grows rapidly. The North American Electric Reliability Corporation classifies the MISO grid region, which serves Detroit, as the only high-risk region for resource adequacy beginning in 2025, with capacity shortfalls projected to reach 9.5 gigawatts by 2028-2029. In October 2025 alone, DTE Energy and Consumers Energy announced 6.4 gigawatts of new data-center supply agreements against a Michigan statewide peak demand of approximately 18 gigawatts, a potential 39 percent surge that places Detroit hospitals at the leading edge of demand-charge inflation across the U.S. healthcare sector.

Founder Background

Mr. Julio Conforto is an Electrical Engineer with a Master's degree in Electrical and Industrial Informatics Engineering with concentration in Biomedical Engineering from the Federal Technological University of Parana (UTFPR), and more than ten years of specialized technical experience in the field service of high-complexity diagnostic imaging equipment. Throughout his career he has accumulated detailed engineering knowledge of MRI gradient coils, RF chains, B0 shimming, cryogenic systems, CT detector arrays, tube alignment, reconstruction systems, and the electrical infrastructure that supports them. He holds more than fifteen technical certifications across MRI and CT diagnostic platforms and has been formally recognized for his contributions to operational service excellence and to the formal documentation of equipment-level technical issues. He is currently based in the Detroit metropolitan area and is an Italian-Brazilian dual citizen. His deep engineering familiarity with the energy-consumption profiles of MRI and CT systems, combined with his direct working knowledge of U.S. hospital biomedical engineering departments, positions him to lead a SaaS platform that translates equipment-level physics into actionable hospital energy savings.

National Priorities and U.S. Needs

IEO Company supports U.S. priorities related to the affordability of healthcare, the resilience of the national electric grid, the sustainability of the healthcare sector, the implementation of recent federal climate-disclosure and energy-efficiency mandates, and the development

[5] American Journal of Roentgenology, CT Idle State Energy Analysis. https://ajronline.org/doi/10.2214/AJR.23.30189

of advanced domestic software in healthcare technology. The U.S. health-care system has reached $5.3 trillion in annual expenditure (approximately 18 percent of GDP), of which the largest single facility operating cost beyond labor is energy and utilities. The company's platform reduces hospital electricity cost at the modality level and contributes measurable scope-2 emissions reductions, supporting both fiscal sustainability and federal climate goals.

The company's services are aligned with key federal priorities and programs, including:

- **U.S. Department of Energy (DOE) Better Buildings Healthcare Initiative** supporting U.S. hospitals to reduce energy consumption and operating cost, with documented Better Buildings healthcare partners (covering 700+ million square feet) having saved more than $340 million since 2011.
- **Securities and Exchange Commission (SEC) Climate Disclosure Rule (2024)** requiring large registrants to disclose material Scope 1 and Scope 2 emissions; the platform's measurement and reporting capabilities provide directly usable disclosure inputs for hospital systems and their public-company parents.
- **The Joint Commission Sustainable Healthcare Certification (launched 2024)** requiring designated greenhouse-gas reduction leadership, measurement, goals, and annual tracking; the platform's modality-level energy reporting supports certification.
- **Executive Order 14057 - Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability** requiring a 65 percent Scope 1+2 federal greenhouse-gas reduction by 2030 and net-zero federal building portfolio by 2045, directly binding HHS facilities and the 170+ hospitals operated by the Veterans Health Administration.
- **Inflation Reduction Act Section 13303 - Section 179D Energy-Efficient Commercial Buildings Deduction** now extended to non-profit hospitals via designer-allocation, providing up to $5.00 per square foot for documented energy reductions; the platform's documented savings support the deduction.

1.1 Nature and Scope of the Business

IEO Company will operate as a U.S.-based Software-as-a-Service company that delivers a cloud-based energy intelligence platform purpose-built for the operational and energy characteristics of MRI and CT diagnostic imaging systems. The platform operates at the infrastructure and operational level, without invasive interaction with proprietary equipment software, ensuring compatibility with multi-vendor hospital imaging environments and full independence from the original equipment manufacturers (OEMs). The company is intentionally and explicitly a software services company; it does not manufacture, distribute, install, service, repair, or maintain medical imaging equipment, and it does not sell or resell hardware.

IEO Company will offer four core service lines:

- **MRI System Subscription** a per-system monthly subscription to the IEO cloud platform for each Magnetic Resonance Imaging system connected through facility-level energy data feeds. The subscription includes continuous monitoring, daily and weekly reporting, IEEI scoring, demand-charge attribution, load-shifting recommendations, and integration with hospital sustainability reporting workflows.
- **CT System Subscription** a per-system monthly subscription for each Computed Tomography system, with the same core analytics, IEEI scoring, and reporting capabilities, calibrated for the operational profile of CT scanners including idle-state behavior and per-exam energy attribution.
- **Implementation Services** a one-time per-hospital engagement covering platform setup, secure facility data integration, modality identification and tagging, baseline measurement, training of hospital biomedical engineering and sustainability staff, and onboarding of clinical and operational stakeholders. Implementation typically completes within four to eight weeks of contract execution.
- **Strategic Advisory Services** optional hourly engagements where the IEO team works directly with hospital leadership on strategic energy optimization, demand-charge negotiation with utilities, sustainability reporting alignment with SEC and Joint Commission frameworks, and capital planning support for imaging fleet refresh decisions.

The U.S. healthcare energy management market has reached an inflection point. Hospital electricity costs are rising materially year over year, U.S. data-center buildouts are projected to consume 9 to 17 percent of total U.S. electricity by 2030, recent federal and state regulations require hospitals to measure, disclose, and reduce scope-2 emissions, and existing commercial energy-management platforms (whole-building HVAC platforms from Honeywell, Schneider Electric, and others; OEM-locked offerings from medical equipment manufacturers; and consulting-led engagements) leave a clear and unfilled niche for vendor-neutral, modality-specific, continuous-loop SaaS focused on MRI and CT systems.[6]

In addition, the U.S. hospital workforce faces persistent operational and capital constraints. Hospital facility teams operate with limited time to investigate equipment-level energy waste, biomedical engineering departments rarely have the analytic tooling to attribute electricity spend to specific imaging modalities, and chief sustainability officers face new disclosure obligations without the granular measurement infrastructure to support them. IEO Company is positioned to address these challenges by providing software automation that delivers continuous, modality-level energy intelligence, demand-charge attribution, and

[6] https://grummanbutkus.com/blog/hospital-energy-costs-up-sharply-new-gba-survey-reveals/

load-shifting opportunities without requiring hospital teams to install or operate new physical infrastructure.

1.2 Mr. Julio Conforto's Expertise

Mr. Julio Conforto has built a continuous and increasingly specialized career in the electrical engineering, control systems, and operational physics of high-complexity diagnostic imaging equipment over more than a decade. His expertise sits at the intersection of three domains that are essential to the development and operation of an MRI and CT energy optimization SaaS platform: (i) detailed engineering knowledge of how MRI and CT systems consume electricity in operational, idle, and stand-by states; (ii) field-level familiarity with how U.S. hospital biomedical engineering and radiology departments organize, schedule, and operate their imaging fleets; and (iii) academic and scientific training in electrical and biomedical engineering, including peer-reviewed scientific publication.

His academic foundation reinforces his field expertise. He holds a Bachelor's degree in Electrical Engineering (2014) and a Master's degree in Electrical and Industrial Informatics Engineering with a concentration in Biomedical Engineering (2021), both from the Federal Technological University of Parana (UTFPR). He has co-authored peer-reviewed scientific publications, including work published in Nature Communications (Impact Factor 17.2) and Cell Reports Physical Science (Impact Factor 7.3), and has presented research at national congresses in biomedical engineering. He is also listed as a court-appointed judicial expert (Perito Judicial) by the State Courts of Parana and Santa Catarina, producing impartial technical opinions on electrical and equipment matters under Brazilian civil procedure.

Mr. Conforto has been formally recognized through industry awards for excellence and service contribution to MRI and CT system reliability, and multiple institutional recognitions for his contribution to maintaining the continuity of healthcare services. He holds more than fifteen technical certifications across MRI and CT diagnostic platforms, including service essentials for MR and CT, advanced system-level training on multiple MRI and CT product families, and remote-services and connectivity training. These certifications, obtained across major imaging platforms, establish his qualification to understand the equipment-level operational and energy characteristics that the IEO platform models on a vendor-neutral basis.

Across his career, Mr. Conforto's professional contribution has included structured root-cause analysis on complex MRI failure modes, documented Product Performance Issue reports that led to development of dedicated equipment replacement parts and software corrections with global reach, overnight interventions that restored equipment availability ahead of scheduled patient examinations, and sustained reductions of equipment downtime in critical healthcare settings. This combination of technical depth, OEM-level training,

academic preparation, and operational discipline positions Mr. Conforto to lead a vendor-neutral software platform that translates equipment-level engineering knowledge into hospital energy savings, while remaining strictly independent from medical equipment manufacturing or servicing.

2.0 The Company

Imaging Energy Optimization (IEO) Company will be incorporated as a Limited Liability Company in the State of Michigan, with its principal place of business in the Detroit metropolitan area. The company will operate as a Software-as-a-Service business delivering a national, cloud-based platform that hospitals subscribe to on a per-system monthly basis. Mr. Julio Conforto will serve as Founder, CEO, and Chief Domain Officer, leading the company's technical methodology, customer relationships, product direction, and quality standards.

The company will begin operations in Year 1 with a focused, lean team of three professionals and will expand to a structured, multidisciplinary team of fifteen by Year 5. The Year-1 team is staggered through the year to align with revenue ramp and to deploy the $120,000 startup investment efficiently: Mr. Conforto begins operations in Month 1; the first Senior Software Engineer joins in Month 4, after initial product architecture, customer-discovery conversations, and the first pilot agreement are advanced; and the Healthcare Operations Analyst joins in Month 9, when active pilot deployments require dedicated operational support. From Year 2 onward, all new hires join in Month 1 of the fiscal year, when annual planning, customer commitments, and product roadmap are fully aligned. The Year-5 team will combine senior software engineering leadership, dedicated data and product capacity, customer success, and energy-systems domain expertise:

- **Founder, General Manager & Chief Domain Officer (Mr. Julio Conforto)** Mr. Conforto will define the company's strategic direction, lead the technical methodology and product roadmap, drive senior customer relationships at hospital sustainability, biomedical engineering, and finance leadership levels, oversee quality control across all engagements, and represent the company in industry forums and conferences.
- **4 Senior Software Engineers (Backend and Data)** Senior engineers responsible for the design and development of the IEO cloud platform, including the energy data ingestion pipeline, the modality-level analytics engine, the demand-charge attribution algorithms, the load-shifting simulation modules, the IEEI scoring methodology, the customer dashboards, and the integration interfaces with hospital sustainability and reporting workflows.

- **2 Healthcare Operations Analysts** analysts with healthcare domain experience responsible for translating hospital operational requirements into product specifications, calibrating modality-level energy models with real-world hospital data, supporting pilot deployments, and producing the technical content (white papers, sustainability disclosures, IEEI methodology documents) that underpins customer value.
- **1 Product Manager** responsible for the company's product strategy, roadmap prioritization, release planning, customer feedback integration, and cross-functional coordination between engineering, customer success, and sales.
- **4 Sales and Business Development Professionals** responsible for hospital and healthcare-system outreach, technical proposal preparation, contract negotiation, pilot conversion, expansion within existing accounts, and relationship management with Group Purchasing Organizations and multi-site healthcare networks.
- **2 Customer Success Managers** responsible for post-implementation account management, subscription renewals, customer health monitoring, expansion sales within existing accounts, and operational coordination of the IEO platform with hospital biomedical engineering and sustainability teams.
- **1 Energy Systems Engineer** an engineering specialist in electrical infrastructure and demand-side energy management responsible for the development of utility-tariff modeling, demand-charge optimization algorithms, peak-load contribution analytics, and partnership with regional utilities and grid operators.

IEO Company will scale its workforce in alignment with subscription growth and customer demand, supporting a national service footprint that originates in Detroit and expands across the Midwest and the broader United States through cloud-based delivery and remote customer engagement.

2.1 Company's Targets

IEO Company's target customers include U.S. hospital systems, individual hospitals, outpatient imaging centers, and healthcare networks that operate Magnetic Resonance Imaging and Computed Tomography equipment and that face material electricity cost, sustainability reporting obligations, or demand-side energy constraints.

- **Large Hospital Systems and Academic Medical Centers** multi-hospital systems and academic medical centers that operate substantial MRI and CT fleets and that are subject to SEC climate-disclosure requirements, Joint Commission certification programs, and large-scale sustainability commitments. These customers represent the highest-value segment, with multi-site deployments and integration with enterprise sustainability reporting infrastructure.

- **Community Hospitals and Mid-Size Independent Hospitals** single-site and small-network hospitals that operate one to a small number of MRI and CT systems and that face rising commercial electricity costs and demand-charge exposure. The platform's per-system subscription pricing aligns naturally with this segment's scale and budget structure.
- **Outpatient and Specialty Imaging Centers** independent imaging centers, radiology practices, and specialty outpatient facilities operating MRI and CT systems primarily for scheduled imaging volume. These customers benefit from per-exam energy attribution and load-shifting opportunities that reduce operational cost without compromising scan throughput.
- **Rural and Critical-Access Hospitals** smaller hospitals in lower-density markets, often operating older MRI and CT systems with tighter operating budgets and higher relative energy cost exposure. The platform supports these customers through cost reduction, regulatory compliance, and capital planning insights.
- **Healthcare Networks with Sustainability and ESG Mandates** hospital networks subject to public-company climate-disclosure requirements, healthcare networks pursuing Joint Commission Sustainable Healthcare Certification, and integrated delivery systems with corporate sustainability commitments. The platform's modality-level reporting capabilities support disclosure-grade documentation.
- **Group Purchasing Organizations and Multi-Site Networks** GPOs and multi-site networks that negotiate consolidated service arrangements across many hospitals; IEO supports framework subscription agreements that standardize energy optimization across diverse imaging fleets and reduce the negotiation burden on individual member hospitals.

IEO Company is positioned to support these customers in achieving measurable energy cost reductions, meeting new federal and state sustainability and disclosure requirements, and improving operational and financial sustainability of their diagnostic imaging departments. Under the leadership of Mr. Julio Conforto, the company will directly address the imaging-energy waste, demand-charge exposure, and regulatory measurement pressures U.S. hospitals face today, contributing to lower healthcare operating cost and stronger grid resilience across the country.

2.2 Need for the Company's Services

The services offered by IEO Company respond directly to a set of converging operational, regulatory, and macro-economic pressures within the U.S. healthcare sector. Hospitals operate among the most energy-intensive commercial buildings in the United States, face rising electricity prices, sit within a stressed national electric grid, and have just entered a regulatory cycle that requires them to measure, disclose, and reduce facility-level energy consumption and emissions.

Energy Intensity and Cost in U.S. Hospitals

U.S. healthcare buildings consumed 581 trillion Btu of energy in 2018, approximately 9 percent of total commercial-building energy consumption despite representing a much smaller share of national floorspace. Inpatient hospitals operate at an energy intensity of approximately 193 kBtu per square foot, more than 2.5 times the typical U.S. commercial building average. U.S. healthcare facilities collectively spend more than $9.7 billion on energy every year, and the American Society for Health Care Engineering reports that 91 percent of hospitals saw higher energy costs year over year, with more than 50 percent reporting double-digit increases.[7][8][9]

Idle-State Energy Waste in MRI and CT Diagnostic Imaging Systems

Within hospital electrical loads, MRI and CT diagnostic imaging systems represent a uniquely concentrated and uniquely addressable source of energy waste. A single 1.5T MRI scanner consumes approximately 100,000 to 135,000 kilowatt-hours per year in routine clinical practice. Idle MRI units draw between 9.5 and 14.5 kilowatts continuously because superconducting magnets require non-stop cryogenic cooling and cannot simply be switched off between examinations. Peer-reviewed research indicates that 31 to 43 percent of an MRI scanner's total annual electricity is consumed in stand-by mode, and that stand-by hours account for 62 to 67 percent of total MRI usage time. Off-hours power-down studies across CT and MRI installations have documented per-device savings of $9,225 to $14,328 per year with zero capital expenditure, precisely the savings opportunity that a software optimization layer is positioned to capture at scale.[10][11][12]

Rising U.S. Electricity Prices and Grid Stress

U.S. commercial-sector electricity prices grew slowly through 2020 but have accelerated since: increases of approximately 5.5 percent (2020 to 2022) and 4.5 percent (2022 to 2024) have placed sustained upward pressure on hospital operating cost. The U.S. Energy Information Administration projects continued commercial-price growth, while data-center

[7] U.S. Energy Information Administration, Commercial Buildings Energy Consumption Survey (CBECS) 2018, Healthcare Buildings: https://www.eia.gov/consumption/commercial/pba/health-care.php
[8] American Society for Health Care Engineering (ASHE), Sustainability Tips - Cost of Energy Reduction: https://www.ashe.org/energytocare/sustainability-tips/cost-of-energy-reduction
[9] U.S. Department of Energy, Better Buildings Healthcare Sector: https://betterbuildingssolutioncenter.energy.gov/sectors/healthcare
[10] Heye et al., Radiology, The Energy Consumption of Radiology, 2020: https://pubs.rsna.org/doi/full/10.1148/radiol.2020192084
[11] Bohm et al., European Radiology, MRI Energy Consumption Patterns, 2024: https://link.springer.com/article/10.1007/s00330-024-11056-0
[12] PMC, Off-Hours Power-Down Studies for Medical Imaging Devices: https://pmc.ncbi.nlm.nih.gov/articles/PMC10902235/

electricity demand is forecast to grow rapidly: from approximately 4.4 percent of national electricity in 2023 to 6.7 to 12 percent by 2028 according to LBNL and DOE analysis, and to 9 to 17 percent of total U.S. electricity by 2030 according to the Electric Power Research Institute. The North American Electric Reliability Corporation classifies more than half of North America as facing potential electricity-supply shortages in the coming decade, with 122,000 megawatts of dispatchable generation set to retire over ten years while demand surges from data centers, electrification, and industrial growth.[13][14][15][16]

Demand Charges and Tariff Structure

Commercial electricity demand charges in the United States typically range from $8 to $25 per kilowatt per month and may account for 30 to 60 percent of total commercial electricity spend. Demand is measured in 15-, 30-, or 60-minute intervals, and many regional transmission organizations assign annual Peak Load Contribution charges based on usage during the highest grid-peak hours of each year. MRI and CT systems, with their continuous 9.5 to 14.5 kilowatt idle draw and short-burst high-power scan-state demand, are ideal targets for software-driven load-shifting that reduces peak demand contribution and lowers demand-charge billing without affecting clinical scan availability.[17]

Healthcare Sustainability Disclosure and Certification Mandates

The regulatory environment for hospital energy and emissions has shifted decisively over the past two years. The U.S. health sector accounts for approximately 8.5 percent of national greenhouse-gas emissions. The Securities and Exchange Commission's Climate Disclosure Rule (finalized March 2024) requires large registrants to disclose material Scope 1 and Scope 2 emissions, with material impact on the approximately 26 percent of U.S. hospitals that are for-profit and on the public-company parents of many non-profit healthcare delivery organizations. The Joint Commission launched a voluntary Sustainable Healthcare Certification in 2024 requiring designated GHG-reduction leadership, measurement, goals, and annual tracking. Executive Order 14057 mandates federal net-zero buildings by 2045, directly binding the 170+ hospitals operated by the Veterans Health Administration. The U.S.

[13] U.S. Energy Information Administration, Short-Term Energy Outlook, Electricity: https://www.eia.gov/outlooks/steo/report/electricity.php
[14] U.S. Department of Energy, Report Evaluating the Increase in Electricity Demand from Data Centers, 2024: https://www.energy.gov/articles/doe-releases-new-report-evaluating-increase-electricity-demand-data-centers
[15] Electric Power Research Institute (EPRI), Powering Intelligence 2026: https://powering-intelligence.epri.com/load-growth.html
[16] North American Electric Reliability Corporation (NERC), 2024 Long-Term Reliability Assessment: https://www.nerc.com/globalassets/our-work/assessments/2024-ltra_corrected_july_2025.pdf
[17] ElectricityPlans, Load Factor and Commercial Demand Charges: https://electricityplans.com/load-factor-commercial-demand-charges/

ENERGY STAR Portfolio Manager publishes a 1-to-100 ENERGY STAR Score for Hospitals that is increasingly requested by payers and state regulators. These converging mandates require hospital leaders to measure, document, and reduce equipment-level scope-2 energy consumption, and the IEO platform provides directly usable measurement and reporting infrastructure.[1819202122]

Competitive Whitespace at the Modality Level

Existing commercial energy management software is structurally incompatible with hospital imaging-energy optimization. Whole-building platforms (Honeywell Forge, Schneider Electric EcoStruxure, EnergyCAP, Lucid BuildingOS, Measurabl, ENGIE Impact) optimize HVAC and building-management systems but are blind to scanner-state physics and modality-level demand patterns. OEM offerings such as Siemens Healthineers ActGreen are tied to a single manufacturer's installed base, leaving multi-vendor hospital fleets uncovered. Consulting-led energy engagements deliver point-in-time recommendations rather than continuous-loop optimization. IEO Company occupies the unfilled niche of vendor-neutral, modality-level, continuous-loop SaaS for MRI and CT scanners, an architecture that no current competitor offers.

2.3 Company's Expansion

IEO Company will follow a phased expansion strategy designed to build platform scale around a high-density customer beachhead in the Detroit metropolitan area, extend coverage progressively across the Midwest, and reach national scale through cloud-based delivery and remote customer engagement by the end of Year 5.

Phase 1 (Year 1): Detroit Metropolitan Beachhead and Product Foundation

The company will begin operations in the Detroit metropolitan area with a focused team of three professionals: Mr. Julio Conforto as Founder, CEO, and Chief Domain Officer; one Senior Software Engineer; and one Healthcare Operations Analyst. Year 1 priorities include completing initial product architecture, signing five pilot hospital agreements in the Detroit

[18] Eckelman & Sherman, Health Affairs, U.S. Health Care Sector Greenhouse Gas Emissions, 2020: https://www.healthaffairs.org/doi/10.1377/hlthaff.2020.01247
[19] Securities and Exchange Commission, Climate Disclosure Rule, March 2024: https://blogs.law.columbia.edu/climatechange/2024/07/23/the-secs-climate-disclosure-rule-will-reveal-healthcares-significant-climate-risk-exposure/
[20] The Joint Commission, Sustainable Healthcare Certification: https://www.jointcommission.org/en-us/certification/sustainable-healthcare
[21] Executive Order 14057, Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability, December 2021: https://www.sustainability.gov/pdfs/EO_14057_Implementing_Instructions.pdf
[22] U.S. EPA ENERGY STAR Portfolio Manager, Hospitals Score: https://www.energystar.gov/buildings/tools-and-resources/energy-star-score-hospitals-general-medical-and-surgical

and broader southeastern Michigan area, validating the platform's energy-measurement and IEEI methodology in production, and documenting initial customer cost-savings results that support Year 2 sales scaling.

Phase 2 (Years 2-3): Midwest Scale-up and Sales Infrastructure

The company will expand its engineering, sales, customer success, product, and operations capacity. In Year 2, the company will add a second Senior Software Engineer, a Healthcare Operations Analyst, and the first Sales and Business Development professional. In Year 3, the team will further expand with the Product Manager role, additional Senior Software Engineer capacity, the first Customer Success Manager, and a second Sales professional. By the end of Year 3, the company expects to be operating with a structured nine-person team, a validated product platform, multi-state customer reference accounts across the Midwest, and a portfolio of multi-year subscription agreements that provides a stable annual recurring revenue base.

Phase 3 (Years 4-5): National Scale and Sustainability Integration

The company will further expand the sales footprint to a national scope, build the customer success organization to support a national subscription base, deepen the integration of the platform with hospital sustainability reporting and SEC climate-disclosure workflows, and add a dedicated Energy Systems Engineer in Year 5 to support utility-tariff modeling, peak-load contribution optimization, and partnerships with regional grid operators. By the end of Year 5, IEO Company will have an established national SaaS footprint serving the U.S. hospital sector through cloud delivery, with a fifteen-person team distributed across software engineering, healthcare operations, product, sales, customer success, and energy systems engineering.

Throughout this expansion, the company will maintain a disciplined focus on vendor neutrality, FDA-aligned data-handling practices, and a strict separation of software services from any medical equipment manufacturing, distribution, installation, service, or repair activity. This positioning preserves the company's broad applicability across heterogeneous hospital imaging fleets and ensures alignment with federal and industry guidance on independent healthcare software services.

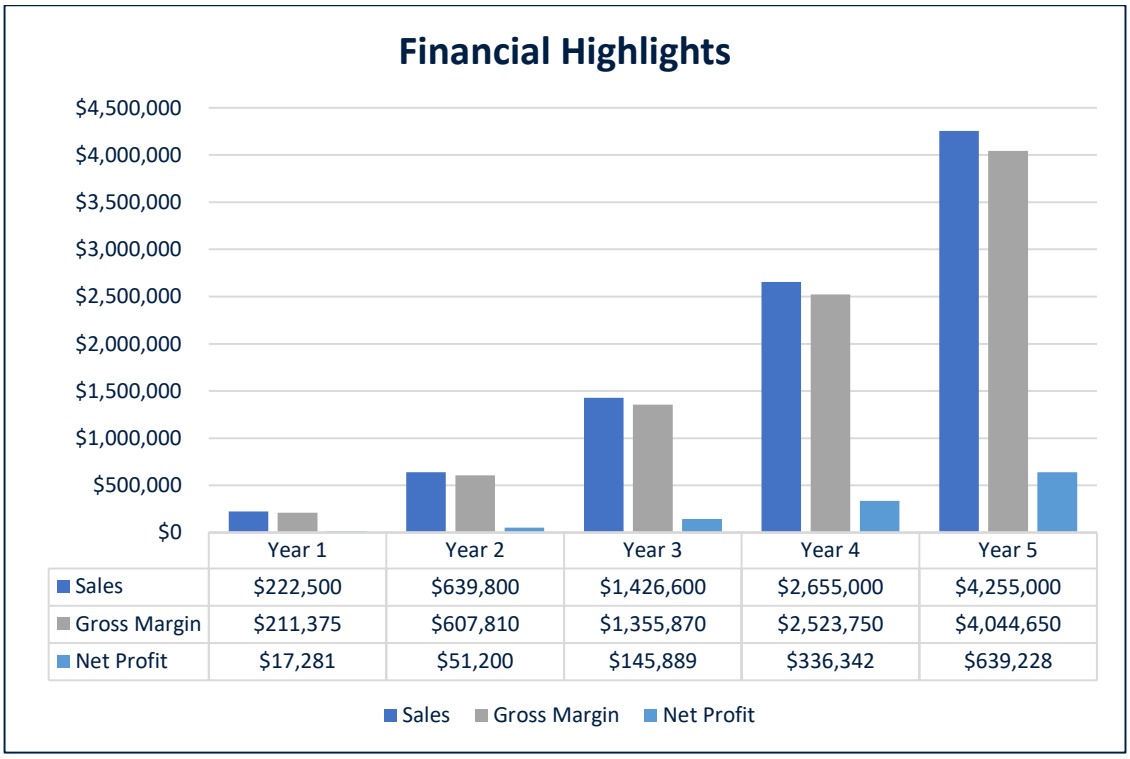
2.4 Company's Economic Benefits

IEO Company will contribute directly and indirectly to the U.S. economy and to the operational and financial sustainability of the U.S. healthcare system. Direct economic contributions include qualified employment, payroll, federal and state taxes, and procurement of specialized goods and services from U.S. suppliers (including cloud infrastructure, data and analytics services, and professional services). Indirect contributions

include the operational and financial impact on hospital customers, who will benefit from documented modality-level energy savings, reduced demand-charge exposure, and the measurement and reporting infrastructure required to meet new federal and state sustainability mandates.

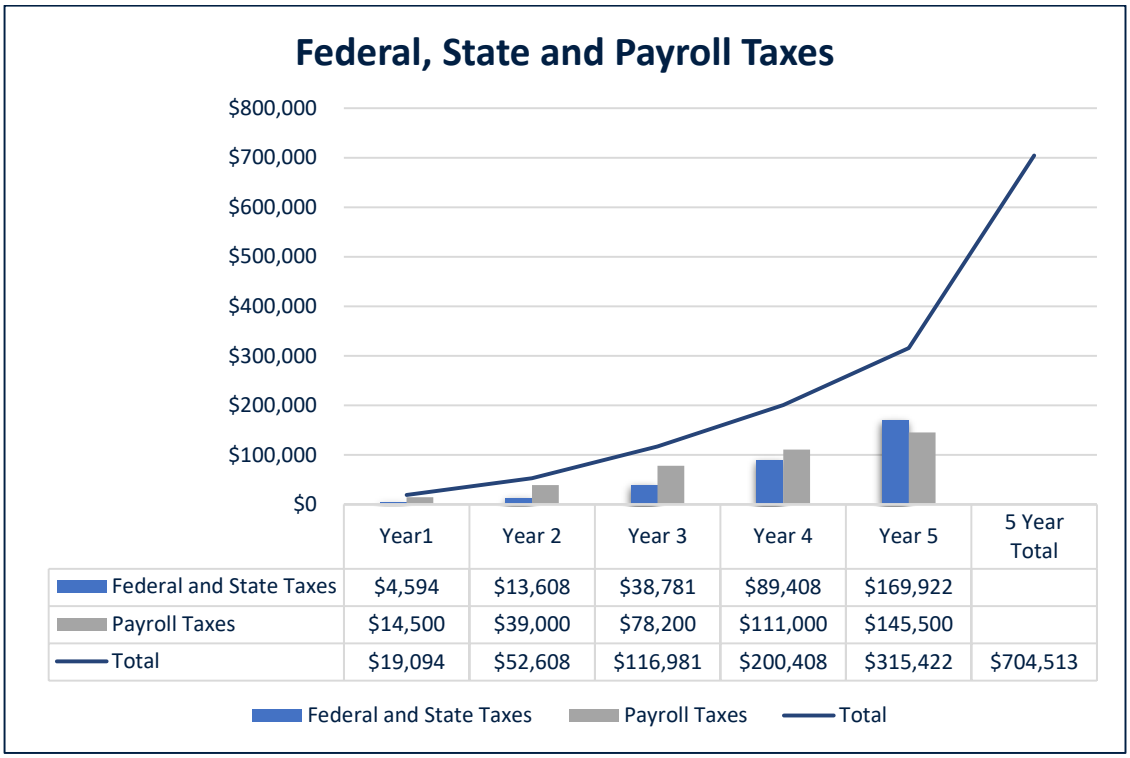
Over the five-year operating plan, IEO Company is projected to generate approximately $9.2 million in cumulative subscription, implementation, and advisory revenue, contribute approximately $1.7 million in federal, state, and payroll taxes, and support an aggregate of 15 direct qualified jobs by Year 5 with additional indirect and induced employment effects across its U.S. supplier base and the broader economy. The following two charts summarize the company's five-year financial trajectory and its projected tax contributions.

2.4.1 Financial Highlights Chart



	Year 1	Year 2	Year 3	Year 4	Year 5
Sales	$222,500	$639,800	$1,426,600	$2,655,000	$4,255,000
Gross Margin	$211,375	$607,810	$1,355,870	$2,523,750	$4,044,650
Net Profit	$17,281	$51,200	$145,889	$336,342	$639,228

2.4.2 Federal, State and Payroll Taxes Chart



	Year1	Year 2	Year 3	Year 4	Year 5	5 Year Total
Federal and State Taxes	$4,594	$13,608	$38,781	$89,408	$169,922	
Payroll Taxes	$14,500	$39,000	$78,200	$111,000	$145,500	
Total	$19,094	$52,608	$116,981	$200,408	$315,422	$704,513

2.5 Summary of Investment

The total investment required to launch IEO Company is $120,000, fully funded by Mr. Julio Conforto through the planned sale of his personal real estate in Curitiba, Brazil. The capital structure is deliberately founder-funded and debt-free, reflecting the lean operating profile of a SaaS company that does not require heavy capital expenditure on physical equipment or inventory.

The funds will be deployed across legal incorporation and licensing fees, initial cloud-infrastructure setup, software-development tools and licenses, initial computer equipment, professional and general liability insurance (including errors-and-omissions and cyber coverage appropriate to a SaaS company serving healthcare customers), website and branding, professional services setup (accounting, HR), customer-discovery and product research, and a home-office or coworking setup in the Detroit metropolitan area. The following table summarizes the company's startup requirements and the allocation of the founding investment across each category.

2.5.1 Startup Requirements Table

Startup	
Requirements	
Startup Expenses	
Legal & Business Incorporation	$4,000
Cloud Infrastructure Initial Setup	$5,000
Software Development Tools & Licenses	$8,000
Computer Equipment (3 laptops)	$9,000
Initial Insurance Policies (E&O, GL, Cyber)	$6,000
Marketing & Branding (website, materials)	$8,000
Professional Services Setup (accounting, HR)	$5,000
Customer Discovery & Product Research	$6,000
Office Setup (home office / coworking)	$4,000
Total Startup Expenses	$55,000
Startup Assets	
Cash Required (Working Capital)	$65,000
Startup Inventory	$0
Other Current Assets	$0
Long-term Assets	$0
Total Assets	$65,000
Total Requirements	**$120,000**

3.0 Company's Services

IEO Company will provide four core service lines designed to deliver continuous, modality-level energy intelligence to U.S. hospitals operating MRI and CT diagnostic imaging systems. Each service line is structured as a distinct contracting category, with defined deliverables, service-level commitments, and pricing model, allowing hospital customers to combine the services that best fit their imaging fleet, sustainability reporting obligations, and operational priorities. All services are delivered through the IEO cloud platform under U.S. data-handling and cybersecurity practices appropriate to networked healthcare software.

1. MRI System Subscription

The MRI System Subscription is the core recurring service offering, delivering continuous modality-level energy intelligence for each Magnetic Resonance Imaging system connected to the IEO platform. The subscription is priced per MRI system on a monthly basis and includes the full set of platform analytics capabilities calibrated for MRI operational and idle-state behavior. The service is delivered entirely through the cloud, with no on-premise software installation required at the hospital, and is fully vendor-neutral across Siemens

Healthineers, GE HealthCare, Philips Healthcare, and other manufacturer-installed MRI systems.

Key activities include:

- Continuous energy data ingestion from facility-level electrical metering and hospital energy management systems, with secure cloud-side processing and storage.
- Real-time and historical modality-level kilowatt-hour attribution per MRI system, including breakdown between idle, scan-state, and active-cooling consumption.
- Daily, weekly, and monthly reporting dashboards for hospital biomedical engineering, radiology operations, sustainability, and facilities leadership.
- Imaging Energy Efficiency Index (IEEI) scoring for each MRI system, providing a benchmark of efficiency against peer hospitals in the IEO network.
- Demand-charge attribution and peak-load contribution analysis identifying when individual MRI scans drive monthly utility demand charges.
- Load-shifting recommendations for non-emergent imaging volume, supporting reduced peak-demand exposure without compromising patient access.
- Sustainability reporting outputs aligned with SEC climate-disclosure requirements, Joint Commission Sustainable Healthcare Certification, and ENERGY STAR Portfolio Manager metrics.

2. CT System Subscription

The CT System Subscription is the analogous recurring service for Computed Tomography systems. The subscription is priced per CT system on a monthly basis at a lower rate than MRI, reflecting the lower per-system energy footprint of CT relative to MRI, while providing the same depth of analytics capability. The service captures the unique CT operational profile, including idle-state, low-power, and active-scan consumption patterns, and includes per-exam energy attribution that supports radiology operations and capacity-planning workflows.

Key activities include:

- Continuous CT energy data ingestion and modality-level attribution per scanner.
- Per-exam kilowatt-hour reporting supporting radiology operations and capacity planning, with breakdowns by scan protocol type.
- Idle-state monitoring and off-hours power-down recommendation engine, calibrated against peer-reviewed CT idle-state savings benchmarks.
- IEEI scoring for each CT system within the IEO benchmark network.
- Demand-charge attribution for high-intensity CT scan periods.

- Integration with hospital sustainability reporting and ENERGY STAR Portfolio Manager benchmarking.

3. Implementation Services

Implementation Services is a one-time per-hospital engagement that prepares a new customer for the subscription service. The engagement covers all activities required to make the IEO platform operational and reliable for the customer's MRI and CT installed base, including data integration, modality identification, baseline measurement, stakeholder training, and onboarding into hospital operational and sustainability workflows. Implementation engagements are typically completed within four to eight weeks of contract execution and are charged as a one-time fee per hospital.

Key activities include:

- Secure integration with the hospital's facility-level energy management and electrical sub-metering infrastructure.
- Identification, tagging, and configuration of every connected MRI and CT system within the IEO platform, including equipment model, age, location, and operational schedule.
- Baseline energy measurement across a minimum 30-day pre-platform period to establish savings reference.
- Training and onboarding for hospital biomedical engineering, radiology, facilities, and sustainability stakeholders.
- Initial calibration of demand-charge and tariff modeling against the hospital's specific utility provider (DTE Energy, Consumers Energy, or others by region).
- Project management, secure data-handling documentation, and post-implementation handoff to the Customer Success function.

4. Strategic Advisory Services

Strategic Advisory Services is an optional, hourly-billed engagement in which IEO subject-matter experts work directly with hospital leadership on strategic energy optimization, demand-charge negotiation, sustainability disclosure alignment, and capital planning support. The service complements the subscription product by providing senior advisory bandwidth on topics that require human expertise beyond the standard platform output. Strategic Advisory engagements are entirely non-invasive to medical equipment and operate exclusively at the strategic and analytical level.

Key activities include:

- Strategic energy optimization roadmap development for hospital sustainability and finance leadership.
- Demand-charge negotiation support with regional utilities, including rate schedule selection and tariff optimization.
- SEC climate-disclosure and Joint Commission Sustainable Healthcare Certification preparation support, including documentation of measurement methodology and uncertainty quantification.
- Capital planning support for imaging fleet refresh decisions, focused on the energy and demand-charge implications of equipment replacement.
- Peer benchmarking and competitive sustainability positioning analysis against comparable hospital systems within the IEO benchmark network.
- Custom analytic engagements that supplement the standard platform output with hospital-specific deep dives.

4.0 Industry Overview

The U.S. healthcare energy optimization market is a structurally large and rapidly evolving segment of the national healthcare economy. It combines hospital electricity spending that already exceeds $9.7 billion per year, a measurable shift in regulatory expectations toward Scope 2 emissions disclosure and certification, and a national electric grid under accelerating stress from data-center buildouts and dispatchable generation retirements. These conditions create a clear market opportunity for vendor-neutral, modality-specific software that captures the substantial energy waste documented in the operation of MRI and CT diagnostic imaging systems.[23]

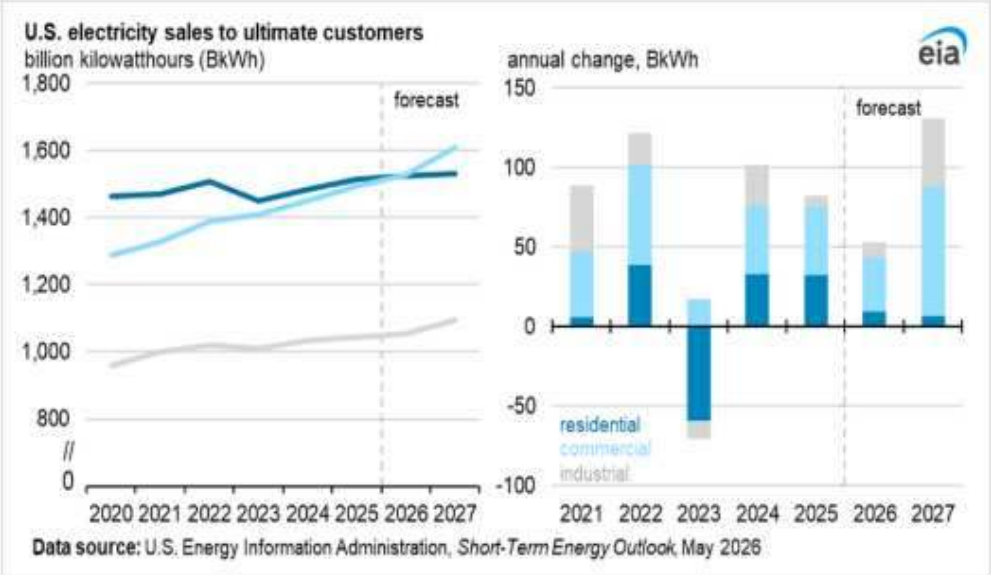
4.1 Industry Analysis

U.S. healthcare buildings consumed 581 trillion Btu of energy in 2018, approximately 9 percent of total commercial-building energy consumption despite occupying a much smaller share of national floorspace. Inpatient hospitals operate at an energy intensity of 193.3 kBtu per square foot, more than 2.5 times the typical U.S. commercial building, and U.S. healthcare facilities collectively spend more than $9.7 billion on energy each year. The American Society for Health Care Engineering reports that 91 percent of hospitals saw higher energy costs year over year, with more than 50 percent reporting double-digit increases.

[23] U.S. Department of Energy, Better Buildings Healthcare Sector: https://betterbuildingssolutioncenter.energy.gov/sectors/healthcare

Within hospital electrical loads, MRI and CT diagnostic imaging systems are uniquely wasteful and uniquely fixable in software. Peer-reviewed studies indicate that a single 1.5T MRI scanner consumes approximately 100,000 to 135,000 kilowatt-hours per year, of which 31 to 43 percent is consumed in stand-by mode because superconducting magnets cannot simply be switched off. Idle MRI units draw between 9.5 and 14.5 kilowatts continuously. Modern CT scanners consume approximately 20,000 to 35,000 kilowatt-hours per year, with national savings from targeting idle-state energy roughly 14.9 times larger than savings from targeting net-scan energy. Off-hours power-down studies across imaging devices have documented savings of $9,225 to $14,328 per device per year with zero capital expenditure.

U.S. commercial-sector electricity prices increased 5.5 percent from 2020 to 2022, 4.5 percent from 2022 to 2024, and continued upward through 2025; U.S. EIA Short-Term Energy Outlook projects continued commercial-price growth. Underlying this price trajectory, U.S. data centers consumed 4.4 percent of national electricity in 2023 (176 terawatt-hours) and are projected by LBNL and the Department of Energy to reach 6.7 to 12 percent (325 to 580 terawatt-hours) by 2028. The Electric Power Research Institute forecasts data centers will reach 9 to 17 percent of total U.S. electricity by 2030, a 60 percent uplift over its 2024 estimate. The North American Electric Reliability Corporation 2024 Long-Term Reliability Assessment classifies more than half of North America as facing potential electricity-supply shortages over the coming decade, with 122,000 megawatts of dispatchable generation set to retire over ten years.[24]



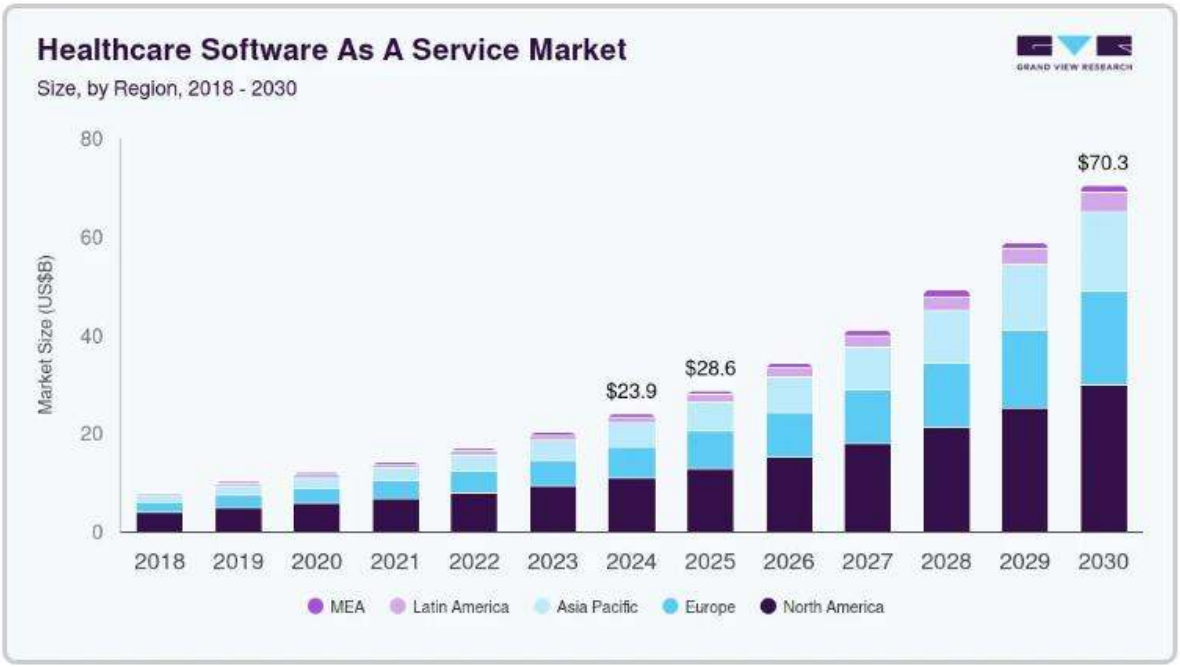
[24] U.S. Energy Information Administration, Short-Term Energy Outlook, Electricity: https://www.eia.gov/outlooks/steo/report/electricity.php

Commercial electricity demand charges in the United States typically range from $8 to $25 per kilowatt per month and may account for 30 to 60 percent of total commercial electricity spend. Demand is measured in 15-, 30-, or 60-minute intervals, and many regional transmission organizations assign annual Peak Load Contribution charges based on usage during the highest grid-peak hours of each year. MRI and CT systems are ideal targets for software-driven load-shifting that reduces peak demand contribution and lowers demand-charge billing without compromising clinical scan availability.[25]

The regulatory environment for hospital energy and emissions has shifted decisively. The U.S. health sector accounts for approximately 8.5 percent of national greenhouse-gas emissions. The SEC Climate Disclosure Rule (finalized March 2024) requires large registrants to disclose material Scope 1 and Scope 2 emissions. The Joint Commission launched a voluntary Sustainable Healthcare Certification in 2024, and Executive Order 14057 mandates federal net-zero buildings by 2045, directly binding the 170+ hospitals operated by the Veterans Health Administration. The Inflation Reduction Act Section 13303 expanded the 179D Energy-Efficient Commercial Buildings Deduction to non-profit hospitals via designer allocation, providing up to $5.00 per square foot for documented energy reductions. The U.S. ENERGY STAR Portfolio Manager publishes a 1-to-100 score for hospitals that is increasingly demanded by payers and state regulators.[26][27][28]

The global Healthcare Software-as-a-Service market reached $25.13 billion in 2024 and is projected to reach $74.74 billion by 2030 at a compound annual growth rate of 20.0 percent, with North America accounting for 45.4 percent of the global market. Gartner forecasts healthcare and life-sciences enterprise IT spending at $265.2 billion in 2024 (an increase of 9.5 percent year over year) with software growing at 13.4 percent, indicating robust customer budget growth for SaaS offerings.[29][30]

[25] ElectricityPlans, Load Factor and Commercial Demand Charges: https://electricityplans.com/load-factor-commercial-demand-charges/
[26] Eckelman & Sherman, Health Affairs, U.S. Health Care Sector Greenhouse Gas Emissions, 2020: https://www.healthaffairs.org/doi/10.1377/hlthaff.2020.01247
[27] U.S. Internal Revenue Service, Energy-Efficient Commercial Buildings Deduction (Section 179D): https://www.irs.gov/credits-deductions/energy-efficient-commercial-buildings-deduction
[28] U.S. EPA ENERGY STAR Portfolio Manager, Hospitals Score: https://www.energystar.gov/buildings/tools-and-resources/energy-star-score-hospitals-general-medical-and-surgical
[29] Grand View Research, Healthcare SaaS Market Report: https://www.grandviewresearch.com/industry-analysis/healthcare-software-as-a-service-market-report
[30] Gartner Forecast, Healthcare and Life Sciences Enterprise IT Spending, 2024: https://www.gartner.com/en/documents/5378463



4.2 Major Market Segmentation

The U.S. healthcare delivery system that operates MRI and CT systems consists of multiple customer segments with characteristic imaging fleet sizes, sustainability obligations, and software purchasing behaviors. The American Hospital Association reports 6,120 total U.S. hospitals (5,129 community hospitals), 916,752 total staffed beds, 4,163 hospitals operating inside health systems, and 68 percent of all U.S. hospitals system-affiliated. The largest U.S. systems include HCA Healthcare (approximately 190 hospitals), the Veterans Health Administration (approximately 170 hospitals), CommonSpirit Health (approximately 140 to 158 hospitals), LifePoint Health (approximately 135 hospitals), Ascension (approximately 119 to 136 hospitals), Trinity Health, and AdventHealth. The U.S. operates approximately 40.4 MRI scanners per million population (roughly 13,000 installed units) and approximately 42.6 CT scanners per million population (roughly 14,000 installed units).[31][32]

- **Large Hospital Systems and Academic Medical Centers** highest-value segment with multi-site deployments, full enterprise sustainability reporting infrastructure, and direct exposure to SEC and Joint Commission requirements. Typical engagement: tens to

[31] American Hospital Association, AHA Fast Facts on US Hospitals 2024: https://www.aha.org/system/files/media/file/2024/01/fast-facts-on-us-hospitals-2024-20240112.pdf
[32] Health System Tracker (KFF / Peterson Center), Comparing US Healthcare Resources: https://www.healthsystemtracker.org/chart-collection/u-s-health-care-resources-compare-countries/

hundreds of MRI and CT systems per system, enterprise contracting through corporate sustainability or supply chain functions.

- **Community and Mid-Size Independent Hospitals** core volume segment for per-system subscription pricing, operating one to a small number of MRI and CT systems with rising demand-charge exposure and constrained operating budgets. Typical engagement: 1-5 MRI plus 2-8 CT systems per hospital, mid-tier subscription packages.
- **Outpatient and Specialty Imaging Centers** high-volume scheduled imaging operations particularly sensitive to per-exam energy cost and demand-charge exposure. Typical engagement: 1-3 MRI plus 2-5 CT systems per site, with strong fit for load-shifting analytics and per-exam reporting.
- **Rural and Critical-Access Hospitals** smaller hospitals in lower-density markets, often operating older imaging systems with the highest relative energy cost exposure. Typical engagement: 1-2 systems per hospital, value primarily through demand-charge reduction and 179D deduction documentation.
- **Healthcare Networks with Sustainability and ESG Mandates** hospital networks subject to SEC climate disclosure, Joint Commission Sustainable Healthcare Certification candidates, integrated delivery systems with corporate sustainability commitments. Strong fit for the platform's measurement and disclosure-grade reporting infrastructure.
- **Group Purchasing Organizations and Multi-Site Networks** GPOs and multi-site networks that negotiate consolidated subscription arrangements; framework agreements standardize energy optimization across diverse hospital member fleets.

4.3 Business Location

IEO Company will be headquartered in the Detroit metropolitan area, Michigan. The location is selected for the convergence of three factors: a dense hospital and academic medical center cluster, an exceptionally stressed regional electric grid that creates acute hospital demand-charge exposure, and a deep electrical engineering and software talent pool. The Detroit region has more than 13,000 healthcare-related businesses, approximately 366,351 healthcare jobs, and approximately $36 billion in annual healthcare economic impact, representing more than half of all healthcare-related businesses in Michigan.[33]

The Detroit hospital landscape includes the region's Big Three integrated health systems: Henry Ford Health, with its 877-bed flagship Henry Ford Hospital; Detroit Medical Center, with more than 2,000 licensed beds across its system; and Corewell Health (formed in 2022 from the Beaumont and Spectrum merger), operating an eight-hospital footprint with 3,375 beds at merger including the 1,131-bed Royal Oak campus. Additional regional providers

[33] Detroit Regional Chamber, Healthcare Industry Overview: https://www.detroitchamber.com/research/regional-overview/industries/health-care/

include Trinity Health Michigan and McLaren Health Care. The Detroit MSA is the 10th-largest healthcare workforce in the nation and is forecast to add more than 36,000 healthcare jobs in the next ten years.[34]

The Detroit grid stress angle creates uniquely strong customer demand for the IEO platform. The North American Electric Reliability Corporation classifies MISO (Detroit's grid operator) as the only high-risk region in North America for resource adequacy starting in 2025, with capacity shortfalls projected at 2.1 gigawatts in 2025/26 growing to 9.5 gigawatts by 2028/29 absent the Emergency Resource Adequacy program. In October 2025 alone, DTE Energy and Consumers Energy announced 6.4 gigawatts of new data-center supply agreements (DTE 1.4 gigawatts signed plus 3 gigawatts in negotiation; Consumers approximately 2 gigawatts), against a Michigan statewide peak demand of approximately 18 gigawatts; if all proposed data-center supply materializes, statewide peak demand could surge approximately 39 percent. The Michigan Public Service Commission has conditionally approved DTE's first hyperscale data-center supply with safeguards aimed at protecting other customers from cost shifts, but rate filings and demand-charge inflation are well underway. DTE Energy offers tiered commercial rates (D3 General Service, D4 Large General Service, D11 Primary Supply for 50 kW+ customers, D8 Interruptible Primary) all of which incorporate demand and time-of-use components that the IEO software directly optimizes. These conditions make Detroit's hospitals the most acute demand-charge exposure cohort in the United States, and an ideal market for proof-of-concept and reference customer deployments.[35][36][37][38]

5.0 Strategy and Implementation

IEO Company's strategy is to build a vendor-neutral, modality-specific SaaS platform that delivers measurable hospital energy savings, supports the new regulatory framework for healthcare sustainability disclosure and certification, and scales nationally through cloud

[34] Detroit Regional Chamber, Healthcare Industry Overview: https://www.detroitchamber.com/research/regional-overview/industries/health-care/
[35] North American Electric Reliability Corporation (NERC), 2024 Long-Term Reliability Assessment: https://www.nerc.com/globalassets/our-work/assessments/2024-ltra_corrected_july_2025.pdf
[36] Data Center Dynamics, Michigan Utility Consumers Energy Hyperscale Data Center Supply: https://www.datacenterdynamics.com/en/news/michigan-utility-consumers-energy-to-provide-1gw-of-power-to-new-hyperscale-data-center/
[37] Michigan Public Service Commission, DTE Electric Energy Contracts for Data Center, December 2025: https://www.michigan.gov/mpsc/commission/news-releases/2025/12/18/mpsc-approves-dte-electric-energy-contracts-for-data-center
[38] DTE Energy, Business Electric Rates: https://www.dteenergy.com/us/en/business/service-request/pricing/rate-options.html

delivery. Implementation will follow a phased buildout focused on Detroit pilot deployments in Year 1, Midwest scaling in Years 2-3, and national reach by Year 5.

5.1 SWOT Analysis

Strengths

- **Vendor-neutral, modality-specific architecture** the platform operates independently of medical equipment manufacturers and is purpose-built for MRI and CT operational and energy characteristics, an architecture that no current competitor offers.
- **Deep founder domain expertise in MRI and CT systems** Mr. Conforto's more than ten years of specialized field service experience and academic training in electrical and biomedical engineering provides directly applicable knowledge of equipment-level energy consumption patterns.
- **Cloud-based, non-invasive delivery model** the platform operates exclusively at the infrastructure and operational level without interaction with proprietary equipment software, ensuring broad applicability and rapid hospital onboarding.
- **Lean SaaS unit economics** the gross margin profile of the platform supports profitable operation from Year 1 with founder-funded $120,000 capitalization, with no debt or external equity required.
- **Detroit market beachhead** high-density hospital cluster combined with the most acute regional demand-charge exposure in the United States creates an ideal proof-of-concept market.
- **Proprietary IEEI methodology** the Imaging Energy Efficiency Index scoring methodology creates a defensible analytic asset, supports peer benchmarking, and provides a recurring measurement layer that aligns with new disclosure requirements.
- **Federal sustainability and disclosure tailwinds** the SEC Climate Disclosure Rule, Joint Commission Sustainable Healthcare Certification, Executive Order 14057, and IRA Section 13303 directly increase hospital demand for measurement and reporting infrastructure.
- **Multi-revenue-stream business model** subscription, implementation, and advisory revenue streams provide diversification, support upsell paths, and reduce dependence on any single deal cycle.

Weaknesses

- **New entrant in U.S. healthcare SaaS market** IEO must build credibility with hospital sustainability, biomedical engineering, finance, and procurement stakeholders against larger and better-known competitors.

- **Initial small team and limited geographic footprint** Year 1 operations are concentrated in Detroit with a three-person team, requiring disciplined execution to expand without overextending resources.
- **Single-founder concentration risk** while mitigated by the lean operating model and the addition of senior software engineering capacity in Year 1, early-year operational continuity depends materially on the founder.

Opportunities

- **Hospital electricity cost inflation** U.S. commercial electricity prices accelerating 4 to 6 percent per year increase customer urgency for energy optimization investment.
- **Data-center-driven grid stress, especially in MISO/Detroit** the most stressed regional grid in North America creates acute hospital demand-charge exposure in the company's home market.
- **Newly mandatory sustainability disclosure** SEC Climate Disclosure Rule and Joint Commission Sustainable Healthcare Certification require measurement infrastructure that the platform provides.
- **Federal sustainability mandates** Executive Order 14057 and IRA Section 13303 generate documented near-term demand for hospital energy reduction documentation.
- **Healthcare SaaS market growth** the global healthcare SaaS market is projected to grow at 20 percent CAGR through 2030, with North America holding 45 percent of the global market.
- **Vendor-neutral modality-specific whitespace** no current competitor occupies the niche of vendor-neutral, modality-level imaging-energy SaaS, leaving a defensible product position.
- **MRI and CT installed base scale** approximately 13,000 MRI and 14,000 CT systems in the United States represent a large addressable market with low penetration of energy-optimization software.
- **Documented per-device savings opportunity** peer-reviewed off-hours power-down studies document $9,225 to $14,328 per device per year savings, providing concrete return-on-investment evidence for hospital customers.

Threats

- **OEM and whole-building competitor responses** Honeywell, Schneider Electric, Siemens Healthineers, and other large incumbents could add modality-level capability to their existing platforms; mitigated by IEO's vendor-neutral positioning and deeper modality specialization.
- **Regulatory framework changes** changes to SEC Climate Disclosure Rule scope or IRA Section 13303 deduction parameters could affect specific customer-acquisition

tailwinds; mitigated by the platform's broader operational and demand-charge value, independent of any single regulation.

5.2 Website and Digital Marketing

IEO Company will deploy a focused digital presence designed to support business development across hospital sustainability, biomedical engineering, radiology operations, finance, and procurement audiences. The digital strategy combines a professional website, search-engine-optimized technical content, targeted LinkedIn outreach, and selective trade-publication advertising in U.S. healthcare sustainability and facilities media.

Website

1. **Service-Line Pages.** Dedicated pages for each of the four core service lines (MRI subscription, CT subscription, implementation, advisory), with detailed descriptions of activities, deliverables, service-level commitments, and pricing model.
2. **Technical Resource Library.** Whitepapers, technical briefings, case studies, and the IEEI methodology document authored by Mr. Conforto and his team on MRI and CT energy optimization, demand-charge attribution, and sustainability disclosure alignment.
3. **Credentials and Compliance Section.** Detailed presentation of cybersecurity practices, SOC 2 commitments, FDA-aligned data-handling principles, integration with ENERGY STAR Portfolio Manager, and alignment with SEC and Joint Commission sustainability frameworks.
4. **Customer Testimonials and Case Studies.** Documented client engagements with quantitative results on kilowatt-hour savings, demand-charge reductions, and IEEI score improvements.
5. **Contact and Engagement Pathways.** Clear pathways for hospital procurement inquiries, pilot program applications, implementation scheduling, and advisory engagement.
6. **Founder Profile.** Detailed presentation of Mr. Conforto's professional trajectory, academic credentials, certifications, and recognition as the technical leadership behind the platform.

Digital Marketing

1. **LinkedIn Outreach.** Targeted outreach to hospital sustainability officers, biomedical engineering managers, radiology administrators, and HTM leadership across the Midwest, with content focused on energy savings, demand-charge reduction, and sustainability disclosure.

2. **Trade Publication Presence.** Selective advertising in Health Facilities Management (HFM), Hospital Energy Management, Healthcare Sustainability Network, Healthcare IT News, and AAMI Array, where U.S. healthcare sustainability and facilities audiences research SaaS solutions.
3. **Search Engine Optimization.** Targeted SEO for hospital sustainability keywords including MRI energy optimization, CT demand charge management, hospital Scope 2 emissions software, and SEC climate disclosure tools.
4. **Industry Conference Participation.** Selective presence at the ASHE Annual Conference, the Healthcare Facilities Symposium, the Joint Commission Sustainable Healthcare Conference, and the AHRA Annual Meeting.
5. **Email Newsletter.** Periodic technical briefings to opted-in hospital sustainability and biomedical engineering leadership sharing energy intelligence insights, peer benchmark trends, and regulatory updates.
6. **Direct Outreach to Group Purchasing Organizations.** Structured engagement with major U.S. GPOs (Premier, Vizient, HealthTrust) that negotiate consolidated SaaS arrangements across multi-hospital networks.

5.3 Sales Strategy

IEO Company's sales strategy combines direct hospital outreach, hospital-network partnership development, and customer-success-driven expansion. The strategy is structured around three pillars: targeted pilot acquisition in the Detroit metropolitan area in Year 1, multi-year subscription growth through expansion of pilot accounts and Midwest geographic expansion in Years 2 and 3, and national scale through GPO and multi-site network contracting in Years 4 and 5.

1. **Targeted Hospital Pilot Outreach.** Direct engagement with hospital sustainability officers, biomedical engineering directors, radiology administrators, finance leaders, and procurement leaders, leveraging Mr. Conforto's deep familiarity with the Detroit healthcare market and his extensive professional network in clinical engineering across the metropolitan area.
2. **Multi-Year Subscription Contracts.** The company's primary contracting model is multi-year subscription agreements priced per MRI and CT system per month, providing hospitals with predictable annual energy intelligence cost and providing the company with stable recurring revenue visibility.
3. **Implementation Services as Onboarding Anchor.** Per-hospital one-time implementation engagements ensure technical and operational readiness for the subscription product, document baseline energy consumption, and create the structured onboarding that supports long-term customer retention.

4. **Strategic Advisory as Trojan Horse.** Optional advisory engagements provide a structured introduction to hospital sustainability and finance leadership, supporting sustainability strategy and disclosure preparation while opening the door to ongoing subscription relationships.
5. **Customer Success Expansion.** Post-implementation account management identifies additional MRI and CT systems for subscription expansion, advisory engagement opportunities, and references that drive new logo acquisition.
6. **GPO and Network-Level Framework Agreements.** Strategic engagement with Group Purchasing Organizations and multi-site healthcare networks to establish framework agreements that scale subscription pricing and onboarding across multiple member hospitals.

5.4 Sales Forecast

IEO Company's five-year sales forecast is built around the four core service lines, with revenue weighted toward recurring MRI and CT subscription revenue in mature years and supported by implementation services as new hospitals join the platform. The company expects approximately $222,500 in revenue in Year 1, scaling to approximately $4,255,000 by Year 5, driven primarily by the growth of active hospital subscriptions and the corresponding expansion of connected MRI and CT systems on the platform.

Pricing Methodology

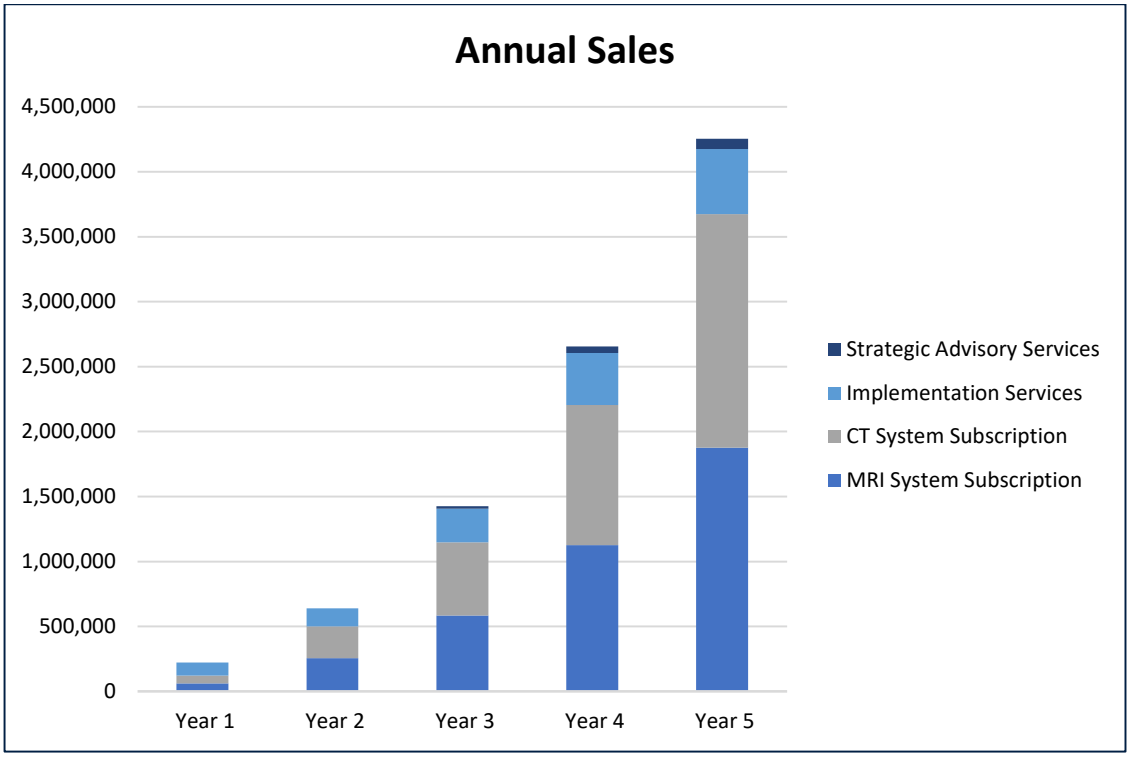
Pricing is benchmarked against U.S. healthcare SaaS market norms and demand-side energy management platforms, with the platform positioned at price points that allow each hospital customer to capture a positive return on investment within the first contract year based on documented per-device savings benchmarks. The unit pricing reflected in the Sales Forecast Table corresponds to one system-month subscription per imaging modality (one MRI system or one CT system, billed monthly through the platform). Multi-system hospital contracts bundle subscriptions at the per-system rates shown below, with a multi-site volume discount available for hospitals with ten or more total imaging systems on the platform.

- MRI System Subscription: $500 per MRI system per month ($6,000 per year), positioned to allow hospitals to capture 1.5 to 2 times return on subscription cost in the first contract year based on documented MRI off-hours power-down savings of $9,225 to $14,328 per device per year.
- CT System Subscription: $300 per CT system per month ($3,600 per year), positioned similarly against documented CT idle-state savings benchmarks and per-exam energy attribution value.

- Implementation Services: $20,000 per hospital, one-time, covering integration, modality identification, baseline measurement, training, and onboarding; typically completes within four to eight weeks.
- Strategic Advisory Services: $250 per hour, billed against specific engagement scopes; introduced in Year 3 once customer success operations are stable.
- Multi-Site Volume Discount: 15 percent off list subscription pricing for hospitals with ten or more total imaging systems on the platform.

5.4.1 Annual Sales Forecast Table

Sales Forecast					
	Year 1	Year 2	Year 3	Year 4	Year 5
Unit Sales					
MRI System Subscription	125	510	1170	2250	3750
CT System Subscription	200	816	1872	3600	6000
Implementation Services	5	7	13	20	25
Strategic Advisory Services	0	0	80	200	320
Total Unit Sales	330	1333	3135	6070	10095
Unit Prices	Year 1	Year 2	Year 3	Year 4	Year 5
MRI System Subscription	$500.00	$500.00	$500.00	$500.00	$500.00
CT System Subscription	$300.00	$300.00	$300.00	$300.00	$300.00
Implementation Services	$20,000.00	$20,000.00	$20,000.00	$20,000.00	$20,000.00
Strategic Advisory Services	$250.00	$250.00	$250.00	$250.00	$250.00
Sales					
MRI System Subscription	$62,500	$255,000	$585,000	$1,125,000	$1,875,000
CT System Subscription	$60,000	$244,800	$561,600	$1,080,000	$1,800,000
Implementation Services	$100,000	$140,000	$260,000	$400,000	$500,000
Strategic Advisory Services	$0	$0	$20,000	$50,000	$80,000
Total Sales	$222,500	$639,800	$1,426,600	$2,655,000	$4,255,000
Direct Unit Costs	Year 1	Year 2	Year 3	Year 4	Year 5
MRI System Subscription	$25.00	$25.00	$25.00	$25.00	$25.00
CT System Subscription	$15.00	$15.00	$15.00	$15.00	$15.00
Implementation Services	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00
Strategic Advisory Services	$5.00	$5.00	$5.00	$5.00	$5.00
Direct Cost of Sales					
MRI System Subscription	$3,125	$12,750	$29,250	$56,250	$93,750
CT System Subscription	$3,000	$12,240	$28,080	$54,000	$90,000
Implementation Services	$5,000	$7,000	$13,000	$20,000	$25,000
Strategic Advisory Services	$0	$0	$400	$1,000	$1,600
Subtotal Direct Cost of Sales	$11,125	$31,990	$70,730	$131,250	$210,350



6.0 Management Structure

IEO Company's management structure combines founder-led technical and customer leadership with a phased buildout of senior software engineering, product management, healthcare operations, sales, and customer success functions. The structure is designed to maintain product quality, technical depth, and customer responsiveness while the company scales from a three-person team in Year 1 to a 15-person organization by Year 5.

6.1 Staffing Requirements

The following section describes each role, its key responsibilities, and the phased addition of positions across the five-year operating plan. Year 1 hires are staggered through the year to align with revenue ramp and to deploy the $120,000 startup investment efficiently. From Year 2 onward, all new hires join in Month 1 of the fiscal year. Compensation is benchmarked against U.S. SaaS and healthcare technology market rates for the Detroit metropolitan area.

- **Founder, General Manager & Chief Domain Officer - Mr. Julio Conforto** Year 1 onward (1 throughout); starts Month 1. Annual compensation Year 1 $66,000 (full year), rising to $135,000 by Year 5. Strategic direction, technical methodology, product roadmap, senior customer relationships, quality oversight, and team leadership.
- **Senior Software Engineer (Backend and Data)** Year 1 onward; starts Month 4 in Year 1 with one engineer at $84,000 annualized ($63,000 paid Year 1 over 9 months). Year 2

adds a second Senior Software Engineer in Month 1 (annual compensation $85,000 each, $170,000 total). Year 3 adds a third engineer in Month 1 (3 engineers at avg $90,000, total $270,000). Year 4 adds the fourth engineer (4 engineers at avg $100,000, total $400,000). Year 5 maintains 4 engineers at $110,000 each ($440,000 total). Responsible for platform development, data pipeline, analytics engine, and customer dashboards.

- **Healthcare Operations Analyst** Year 1 onward; starts Month 9 in Year 1 with one analyst at $48,000 annualized ($16,000 paid Year 1 over 4 months). Year 2 full year compensation $65,000. Year 3 $72,000. Year 4 adds second analyst (2 analysts at avg $75,000, total $150,000). Year 5 (2 analysts at $82,500 each, $165,000 total). Responsible for translating hospital operational requirements into product specifications, calibrating modality-level energy models, and supporting pilot deployments.
- **Product Manager** Year 3 onward (1 throughout); starts Month 1 of Year 3. Annual compensation Year 3 $110,000, rising to $125,000 by Year 5. Product strategy, roadmap prioritization, release planning, customer feedback integration, and cross-functional coordination.
- **Sales and Business Development** Year 2 onward; starts Month 1 of Year 2 with one professional at $70,000 base plus commission. Year 3 adds a second (2 professionals, total $160,000). Year 4 adds a third (3 professionals, total $249,000). Year 5 adds a fourth (4 professionals at avg $85,000, total $340,000). Direct hospital and healthcare-system outreach, technical proposal preparation, contract negotiation, and pilot conversion.
- **Customer Success Manager** Year 3 onward; starts Month 1 of Year 3 with one manager at $70,000. Year 4 maintains 1 at $76,000. Year 5 adds a second (2 managers at $80,000 each, total $160,000). Post-implementation account management, subscription renewals, customer health monitoring, and expansion sales within existing accounts.
- **Energy Systems Engineer** Year 5 onward (1 throughout); starts Month 1 of Year 5. Annual compensation $90,000. Utility-tariff modeling, demand-charge optimization algorithms, peak-load contribution analytics, and partnerships with regional utilities and grid operators.

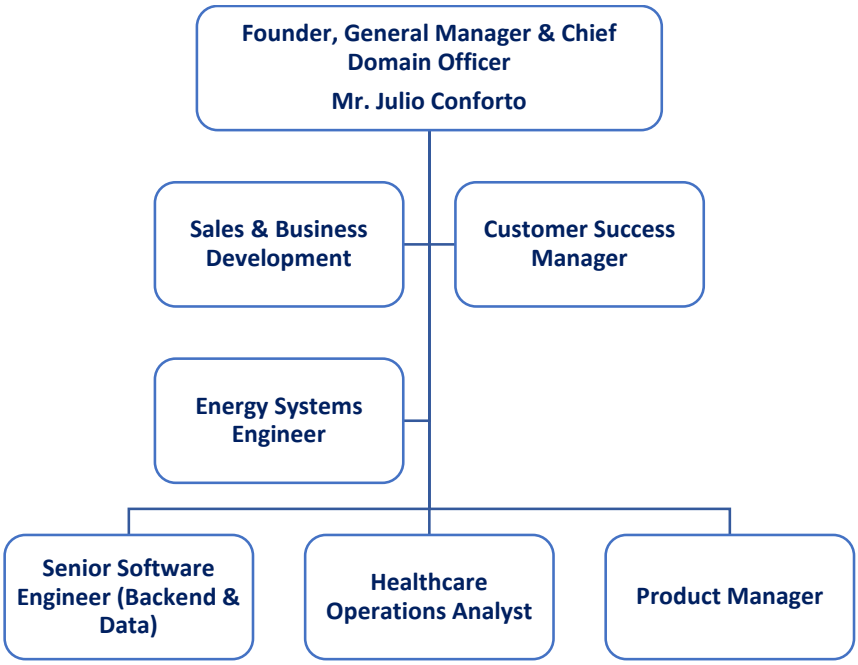
6.2 Annual Personnel Plan Table

Personnel Plan					
	Year 1	Year 2	Year 3	Year 4	Year 5
Founder, General Manager & Chief Domain Officer - Mr. Julio Conforto	$66,000	$85,000	$100,000	$115,000	$135,000
Senior Software Engineer (Backend & Data)	$63,000	$170,000	$270,000	$400,000	$440,000
Healthcare Operations Analyst	$16,000	$65,000	$72,000	$150,000	$165,000
Product Manager	$0	$0	$110,000	$120,000	$125,000
Sales & Business Development	$0	$70,000	$160,000	$249,000	$340,000
Customer Success Manager	$0	$0	$70,000	$76,000	$160,000
Energy Systems Engineer	$0	$0	$0	$0	$90,000
Total People	3	5	9	12	15
Total Payroll	$145,000	$390,000	$782,000	$1,110,000	$1,455,000

6.3 Five-Year Personnel Plan Table

Five-Year Personnel Plan					
	Year 1	Year 2	Year 3	Year 4	Year 5
Founder, General Manager & Chief Domain Officer - Mr. Julio Conforto	1	1	1	1	1
Senior Software Engineer (Backend & Data)	1	2	3	4	4
Healthcare Operations Analyst	1	1	1	2	2
Product Manager	0	0	1	1	1
Sales & Business Development	0	1	2	3	4
Customer Success Manager	0	0	1	1	2
Energy Systems Engineer	0	0	0	0	1
Total People	3	5	9	12	15

6.4 Organizational Chart - Year 5



6.5 Duties and Responsibilities

This section describes the duties and responsibilities of each position in the IEO Company team. Detailed duties are listed for each role and reflect the operational expectations across the five-year plan.

Founder, General Manager & Chief Domain Officer

- Strategic direction: define and update the company's strategic direction, product roadmap, and technical methodology.
- Senior customer relationships: manage hospital sustainability, biomedical engineering, finance, and procurement leadership-level relationships across the customer portfolio.
- Technical leadership: lead the proprietary IEEI methodology, the platform's energy modeling architecture, and the technical credibility of the company within healthcare sustainability and clinical engineering communities.
- Quality and compliance oversight: approve cybersecurity standards, FDA-aligned data handling practices, and customer-facing measurement methodology.
- Team supervision and development: supervise the executive team, conduct technical and operational reviews, and approve senior hires.
- External representation: represent the company in industry forums, conferences, regulatory engagements, and trade publications.

Senior Software Engineer (Backend and Data)

- Platform engineering: design and develop the IEO cloud platform, including the energy data ingestion pipeline, analytics engine, and customer dashboards.
- Algorithm development: implement modality-level energy attribution, demand-charge modeling, load-shifting simulation, and IEEI scoring algorithms.
- Data integration: develop secure facility-level energy data integration interfaces with hospital electrical sub-metering, ENERGY STAR Portfolio Manager, and sustainability reporting workflows.
- Reliability and security: maintain platform uptime, cybersecurity posture, and SOC 2 commitments.
- Documentation and code quality: produce technical specifications, code reviews, and testing coverage that support sustainable engineering growth.

Healthcare Operations Analyst

- Hospital domain translation: translate hospital operational requirements into product specifications and analytic workflows.
- Model calibration: calibrate modality-level energy models with real-world hospital data and peer-reviewed benchmark sources.
- Pilot deployment support: support customer success and engineering teams during pilot deployments and post-implementation onboarding.
- Technical content production: produce white papers, sustainability disclosure templates, IEEI methodology documents, and customer-facing analytics narratives.

Product Manager

- Product strategy: lead product strategy, roadmap prioritization, and release planning.
- Customer feedback integration: collect, synthesize, and prioritize customer feedback from sales, customer success, and implementation engagements.
- Cross-functional coordination: coordinate engineering, customer success, sales, and marketing on product launches and updates.
- Competitive analysis: monitor competitor activity (Honeywell, Schneider, Siemens ActGreen, EnergyCAP, etc.) and inform product differentiation strategy.

Sales and Business Development

- Hospital outreach: conduct targeted outreach to hospital sustainability officers, biomedical engineering managers, radiology administrators, and procurement leaders across the Midwest service territory and broader national footprint.
- Proposal preparation: prepare technical proposals, pilot program agreements, multi-site subscription quotes, and contract drafts.

- Contract negotiation: support contract negotiation with hospital procurement, group purchasing organizations, and healthcare network corporate functions.
- GPO and network development: develop relationships with Premier, Vizient, HealthTrust, and other major U.S. GPOs and multi-site networks.

Customer Success Manager

- Account management: administer post-implementation subscription accounts, including renewals, scope changes, and customer satisfaction monitoring.
- Customer health monitoring: monitor platform usage, IEEI score trajectories, and customer health indicators to identify at-risk accounts.
- Expansion sales: identify and execute expansion opportunities within existing accounts (additional MRI/CT systems, advisory engagements, multi-site expansion).
- Implementation handoff: serve as the operational interface between the Implementation Services function and ongoing customer engagement.

Energy Systems Engineer

- Utility-tariff modeling: develop and maintain models of commercial electricity rate structures (D3, D4, D11, D8 in Michigan, and equivalent tariffs in other states), including time-of-use, demand charges, and Peak Load Contribution mechanisms.
- Demand-charge optimization: develop algorithms for hospital-side demand-charge reduction through MRI and CT load-shifting.
- Utility and grid partnerships: build partnerships with regional utilities (DTE Energy, Consumers Energy, and equivalents in expansion markets) and grid operators (MISO and others) for demand-response programs and grid-side value participation.
- Energy markets monitoring: track regional electricity market trends, capacity auctions, and regulatory rulings that affect hospital electricity cost and IEO product strategy.

6.6 Strategic Advisory Board

To complement the founder's deep diagnostic-imaging engineering expertise and to accelerate the company's transition into a national SaaS organization, IEO Company will establish a Strategic Advisory Board composed of two senior advisors recruited during Year 1. Advisors are engaged on an equity-only basis, with no cash compensation and no impact on the Year 1 to Year 5 operating budget, and are expected to contribute approximately four to eight hours per month each, including monthly review sessions with the Founder and CEO and quarterly working sessions with the broader team.

The first advisor seat is reserved for a Healthcare SaaS Operating Advisor, a former Chief Technology Officer, Vice President of Product, or Chief Operating Officer of a healthcare software-as-a-service company that scaled from early stage to multi-state deployment.

This advisor provides operating guidance on SaaS product management discipline, healthcare buyer-cycle dynamics, multi-year subscription contracting, and customer success structures appropriate to hospital procurement. The seat directly mitigates the founder's primary experience-base gap, which is in operational SaaS scaling rather than in MRI and CT engineering, and is intended to be filled by the end of Year 1.

The second advisor seat is reserved for a Clinical and Operational Advisor, a radiology operations leader, biomedical engineering director, or hospital sustainability officer with direct line-management experience in the U.S. hospital imaging environment. This advisor provides domain validation for product priorities, supports introductions and reference conversations during pilot deployments, and reviews the company's customer-facing methodologies and reporting templates for clinical and operational fit.

The Strategic Advisory Board is intentionally lean. It is not a board of directors and holds no governance authority. Its sole purpose is to compress the company's learning curve in the two areas, SaaS scaling and U.S. hospital imaging operations, where outside experience accelerates Year 1 and Year 2 execution.

7.0 Financial Summary

The financial plan for IEO Company presents a structured analysis of the company's projected performance over its first five years of operation in the United States. The projections provide a clear view of expected subscription revenue growth, implementation and advisory services revenue, operating expenses, and overall profitability, demonstrating the financial feasibility and scalability of the proposed Software-as-a-Service business model.

The company's financial structure is based on a recurring-revenue subscription model with per-system pricing for MRI and CT subscriptions, supplemented by one-time implementation fees and optional advisory services. This model supports a scalable revenue structure where growth is driven by hospital customer acquisition, expansion of connected MRI and CT systems on the platform, and the addition of optional advisory engagement volume.

The financial plan incorporates key components, including startup investment, profit and loss projections, cash flow assumptions, and balance sheet estimates. These elements collectively demonstrate the company's ability to generate consistent recurring revenue, manage operational cost, and maintain financial stability as operations expand across the Detroit metropolitan area, the Midwest, and the national U.S. healthcare market.

Revenue growth is projected to occur consistently over the five-year period, supported by increasing demand for hospital energy optimization, rising commercial electricity prices, and the regulatory framework for healthcare sustainability disclosure and certification. As reflected in the projections, total sales are expected to increase from $222,500 in Year 1 to

$4,255,000 in Year 5, demonstrating a structured and scalable growth trajectory. Operating expenses are expected to grow in alignment with business expansion, primarily driven by workforce development (Senior Software Engineers, Healthcare Operations Analysts, Sales and Business Development, Customer Success, and Energy Systems Engineering), customer acquisition investment, and cloud infrastructure scaling.

The financial projections presented in this business plan were developed using a structured financial modeling methodology based on subscription economics, customer acquisition assumptions, and operational capacity. The model follows a bottom-up approach, where revenue is derived from projected active hospital customers, connected MRI and CT systems, per-system subscription prices, and one-time implementation fees, aligned with the company's ability to deliver the platform and onboard hospital customers effectively. In addition, the projections incorporate workforce expansion, customer acquisition cost scaling, and realistic customer acquisition assumptions, ensuring consistency between projected recurring revenue growth and operational capacity.

It is important to note that financial projections of this nature are not derived from a single external source, but from established financial planning methodologies that consider U.S. healthcare SaaS market conditions, industry behavior, and reasonable growth assumptions. As such, the figures presented represent a technically grounded and conservative estimate of the company's expected financial performance, with a deliberate emphasis on positive operating margins from Year 1 onward.

Overall, the financial plan demonstrates that IEO Company is positioned to achieve steady growth, maintain profitable operations, and generate consistent financial results. The projections support the company's ability to expand its subscription base, increase its workforce, and contribute to economic activity within the U.S. healthcare technology and software sectors while maintaining financial discipline and long-term sustainability.

7.1 Break-even Analysis

The Break-even Analysis is an indispensable financial metric for IEO Company, offering crucial insights into when the company's total revenues will match its total costs. For IEO Company, this pivotal financial equilibrium is attained when monthly sales hit 25 units (system-months and implementation engagements combined), leading to a break-even revenue of approximately $16,000 per month. This calculation rests on a set of fundamental assumptions:

7. **Average Revenue Per Unit:** the revenue expected from each unit sold is projected to average approximately $674 across the Year 1 mix of MRI system-months ($500 each), CT

system-months ($300 each), and per-hospital implementation services ($20,000 each spread across associated subscription units).

8. **Average Variable Cost Per Unit:** the average variable cost associated with each unit is estimated at approximately $34, reflecting per-unit cloud infrastructure, data licenses, and implementation contractor support across the subscription and implementation product mix.
9. **Monthly Fixed Costs:** the company anticipates incurring average monthly fixed costs of approximately $15,800 in Year 1, including payroll, payroll taxes, rent, insurance, and other operating expenses, distributed across the staggered Year-1 hiring schedule.

Grasping the break-even point is critical for guiding the strategic direction of IEO Company. It acts as a crucial benchmark for establishing attainable subscription targets, managing customer acquisition investment, and steering the company toward sustained financial health and profitability. Reaching this break-even point in Year 1 signifies a noteworthy achievement, particularly for a SaaS company at the bootstrap stage, and demonstrates that the per-system subscription pricing structure supports profitable operation from the first year of execution.

7.1.1 Break-even Analysis Table

Break-even Analysis	
Monthly Units Break-even	25
Monthly Revenue Break-even	$16,623
Assumptions:	
Average Per-Unit Revenue	$674.00
Average Per-Unit Variable Cost	$34.00
Estimated Monthly Fixed Cost	$15,792

7.2 Profit and Loss Assumptions

IEO Company has developed a financial structure aligned with the delivery of a vendor-neutral, modality-specific SaaS platform serving U.S. hospitals, complemented by implementation services and advisory services. The company's cost structure reflects a software services model where payroll and customer acquisition investment represent the primary operating expenses, and direct cost of sales scales proportionally with cloud infrastructure use, data and API licenses, and implementation contractor support.

The company's financial projections indicate consistent growth driven by increasing demand for hospital energy optimization SaaS in the U.S. healthcare market. Sales are expected to begin at $222,500 in Year 1, increasing to $4,255,000 by Year 5, reflecting expansion of the active hospital customer base from 5 hospitals to 70 hospitals and corresponding growth of

connected MRI system-months (from 125 to 3,750) and CT system-months (from 200 to 6,000).

Direct cost of sales is projected to increase from $11,125 in Year 1 to $210,350 by Year 5, following the growth in subscription unit volume and implementation activity. The company maintains a gross margin of approximately 95 percent throughout the projection period, increasing from $211,375 in Year 1 to $4,044,650 in Year 5, reflecting the efficient unit economics of the SaaS subscription model and controlled cloud-infrastructure cost structure.

Operating expenses are expected to grow from $189,500 in Year 1 to $3,138,500 by Year 5, primarily driven by workforce expansion and customer acquisition investment. Payroll represents the largest component of operating expenses, increasing from $145,000 to $1,455,000 over the five-year period. Customer acquisition expenses (marketing, sales commissions, advertising, conferences, partner programs) increase substantially in the later years as the company invests in national scale. Additional expenses, including rent, insurance, software and cloud tools, professional services, equipment, recruitment, training, and advisory delivery costs, increase in a controlled manner in line with business growth.

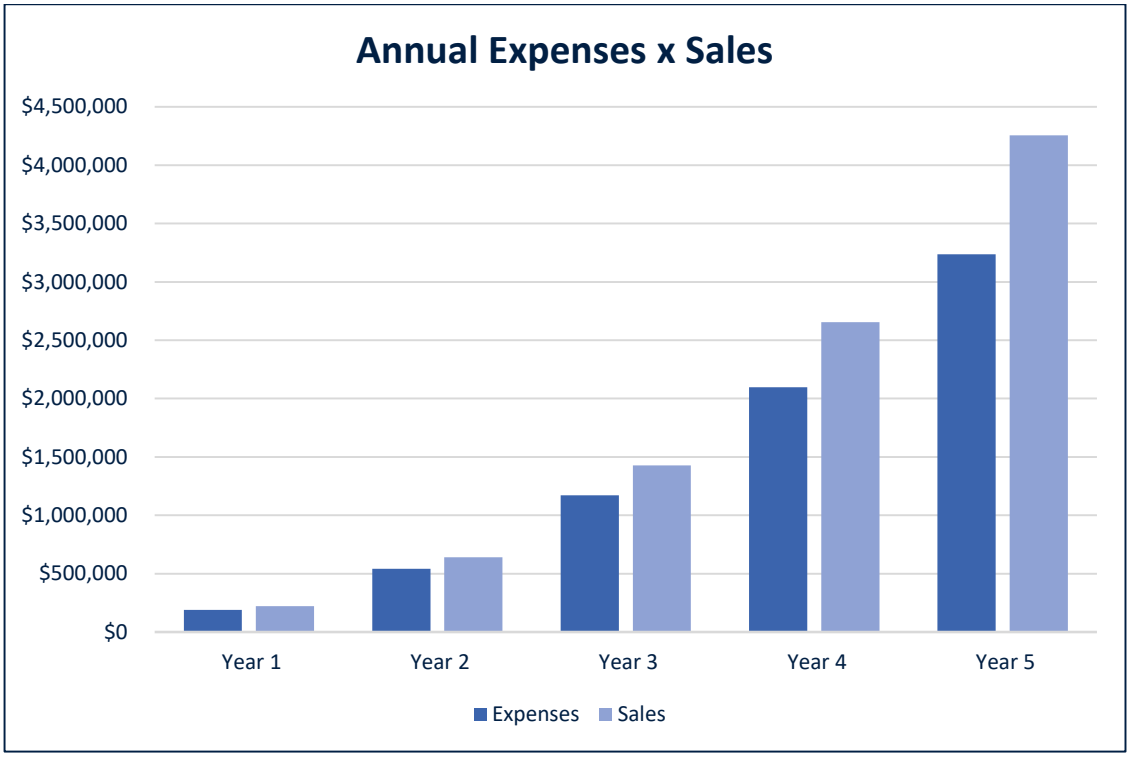
Earnings Before Interest, Taxes, Depreciation, and Amortization (EBITDA) are projected to increase from $21,875 in Year 1 to $809,150 by Year 5, demonstrating the company's ability to maintain operational efficiency while expanding its activities. The Year-1 positive EBITDA reflects the disciplined staggered hiring of Year-1 team members (Founder Month 1, Senior Software Engineer Month 4, Healthcare Operations Analyst Month 9), the lean Year-1 customer acquisition spend, and the high gross margin profile of the SaaS subscription model.

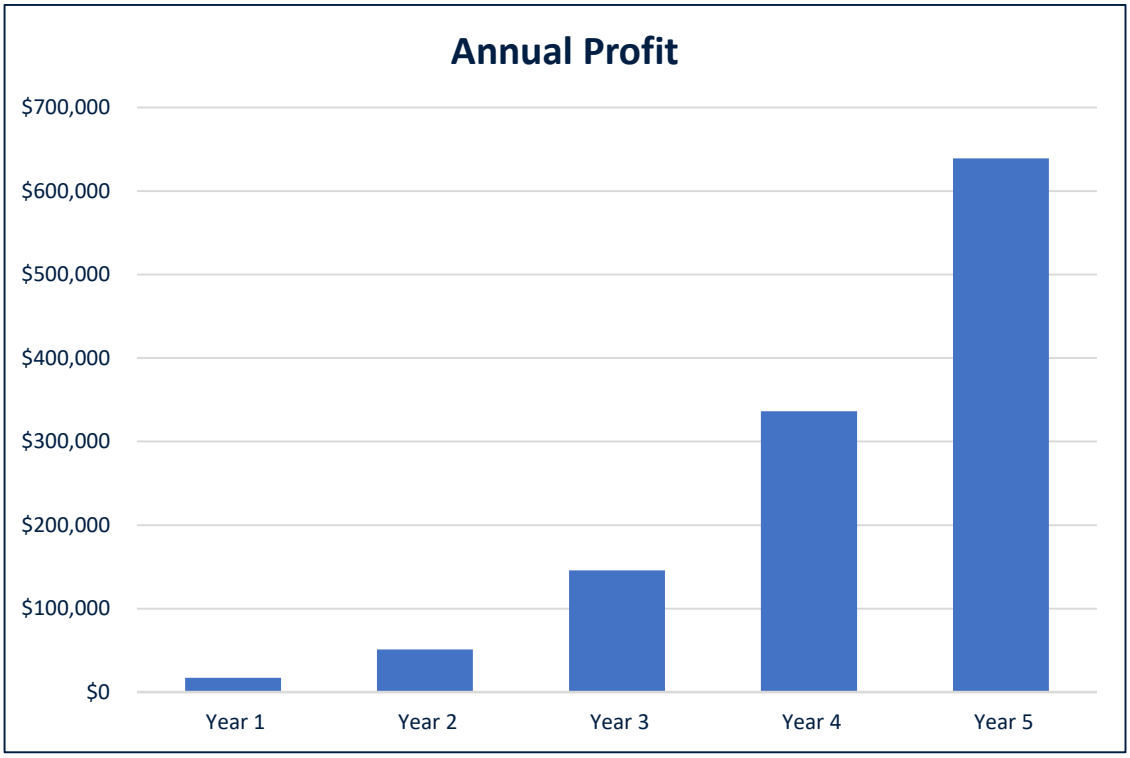
Net profit follows a consistent upward trend, starting at $17,281 in Year 1 and reaching $639,228 by Year 5. Net profit margins are projected to expand gradually, beginning at 7.8 percent in Year 1, holding at 8.0 percent in Year 2 during accelerated team and customer-acquisition investment, and rising to 10.2 percent (Year 3), 12.7 percent (Year 4), and 15.0 percent (Year 5), reflecting balanced growth between revenue generation and operating cost management.

Overall, the profit and loss projections demonstrate that IEO Company is positioned to operate with a stable and scalable financial structure. The company's model supports consistent recurring revenue growth, disciplined cost expansion, and sustainable profitability as it increases its presence within the U.S. healthcare energy optimization sector.

7.2.1 Annual Profit and Loss Table and Charts

Pro Forma Profit and Loss					
	Year 1	Year 2	Year 3	Year 4	Year 5
Sales	$222,500	$639,800	$1,426,600	$2,655,000	$4,255,000
Direct Cost of Sales	$11,125	$31,990	$70,730	$131,250	$210,350
Total Cost of Sales	$11,125	$31,990	$70,730	$131,250	$210,350
Gross Margin	$211,375	$607,810	$1,355,870	$2,523,750	$4,044,650
Gross Margin %	95.00%	95.00%	95.04%	95.06%	95.06%
Expenses					
Payroll	$145,000	$390,000	$782,000	$1,110,000	$1,455,000
Marketing/Promotion	$5,000	$28,000	$95,000	$370,000	$800,000
Sales Commissions	$0	$25,000	$57,000	$110,000	$185,000
Advertising	$2,000	$4,000	$15,000	$80,000	$130,000
Rent	$3,000	$12,000	$25,000	$42,000	$60,000
Insurance	$5,000	$7,000	$9,000	$12,000	$15,000
Software & Cloud Tools	$5,000	$10,000	$18,000	$28,000	$42,000
Conferences \& Travel	$2,000	$7,000	$18,000	$45,000	$70,000
Professional Services	$5,000	$7,000	$10,000	$14,000	$18,000
Equipment\& Office	$3,000	$4,000	$8,000	$11,000	$15,000
Partner\& Integration Programs	$0	$5,000	$25,000	$80,000	$130,000
Recruitment	$0	$3,000	$15,000	$35,000	$60,000
Training \& Education	$0	$2,000	$11,000	$28,000	$60,000
Advisory Delivery Costs	$0	$0	$5,000	$22,000	$50,000
Payroll Taxes	$14,500	$39,000	$78,200	$111,000	$145,500
Total Operating Expenses	$189,500	$543,000	$1,171,200	$2,098,000	$3,235,500
Profit Before Interest and Taxes	$21,875	$64,810	$184,670	$425,750	$809,150
EBITDA	$21,875	$64,810	$184,670	$425,750	$809,150
Taxes Incurred	$4,594	$13,610	$38,781	$89,408	$169,922
Net Profit	$17,281	$51,200	$145,889	$336,342	$639,228
Net Profit/Sales	7.77%	8.00%	10.23%	12.67%	15.02%


Annual Expenses x Sales
$4,500,000
$4,000,000
$3,500,000
$3,000,000
$2,500,000
$2,000,000
$1,500,000
$1,000,000
$500,000
$0
Year 1
Year 2
Year 3
Year 4
Year 5
Expenses
Sales


Annual Profit
$700,000
$600,000
$500,000
$400,000
$300,000
$200,000
$100,000
$0
Year 1
Year 2
Year 3
Year 4
Year 5

7.3 Cash Flow Assumptions

IEO Company's Pro Forma Cash Flow statement for the upcoming five years illustrates a robust financial path characterized by escalating cash inflows from subscription, implementation, and advisory operations and judiciously managed expenditures, culminating in consistent net cash flow growth.

In the initial year, the company anticipates a cash inflow from operations totaling $222,500, derived entirely from cash sales as the company operates on a cash-collected basis for subscription billing (monthly subscription prepayments) and implementation services (paid upon project completion). This pattern is expected to persist, with cash inflow forecasted to increase to $4,255,000 by the fifth year. Throughout this period, the company does not foresee any additional cash inflows from non-operational activities such as borrowing, asset sales, or external investment beyond the founder's initial $120,000 contribution.

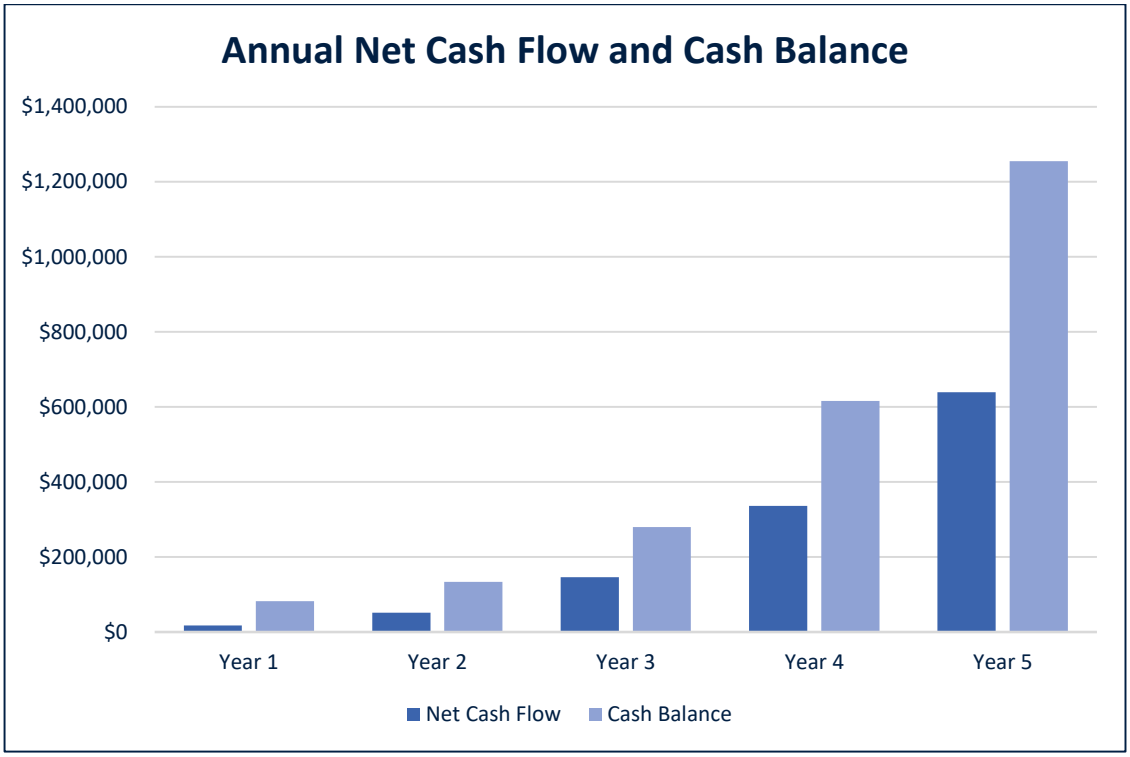
Expenditures are primarily composed of cash spending on operations, including payroll, payroll taxes, cloud infrastructure, marketing, sales commissions, software tools, conferences and travel, professional services, equipment, partner and integration programs, recruitment, training, and advisory delivery costs. Cash spending is projected to ascend from $205,219 in Year 1 to $3,615,772 by Year 5. The company does not anticipate any additional non-operational expenditures, including dividends, debt service, or capital asset purchases, throughout the five-year planning horizon.

The net cash flow, indicative of the differential between cash received and cash expended, is projected to consistently remain in positive territory throughout the five-year span. It is expected to commence at $17,281 in Year 1, increasing to $639,228 by Year 5. Reflecting this upward trend, the cash balance is anticipated to grow from $82,281 at the end of Year 1 to $1,254,940 by the end of Year 5.

7.3.1 Annual Cash Flow Table and Chart

Pro Forma Cash Flow					
	Year 1	Year 2	Year 3	Year 4	Year 5
Cash Received					
Cash from Operations					
Cash Sales	$222,500	$639,800	$1,426,600	$2,655,000	$4,255,000
Cash from Receivables	$0	$0	$0	$0	$0
Subtotal Cash from Operations	$222,500	$639,800	$1,426,600	$2,655,000	$4,255,000
Additional Cash Received					
Non-Operating (Other) Income	$0	$0	$0	$0	$0
Sales Tax, VAT, HST/GST Received	$0	$0	$0	$0	$0
New Current Borrowing	$0	$0	$0	$0	$0

Pro Forma Cash Flow					
New Other Liabilities (interest-free)	$0	$0	$0	$0	$0
New Long-term Liabilities	$0	$0	$0	$0	$0
Sales of Other Current Assets	$0	$0	$0	$0	$0
Sales of Long-term Assets	$0	$0	$0	$0	$0
New Investment Received	$0	$0	$0	$0	$0
Subtotal Cash Received	$222,500	$639,800	$1,426,600	$2,655,000	$4,255,000
Expenditures	Year 1	Year 2	Year 3	Year 4	Year 5
Expenditures from Operations					
Cash Spending	$205,219	$588,600	$1,280,711	$2,318,658	$3,615,772
Bill Payments	$0	$0	$0	$0	$0
Subtotal Spent on Operations	$205,219	$588,600	$1,280,711	$2,318,658	$3,615,772
Additional Cash Spent					
Non-Operating (Other) Expense	$0	$0	$0	$0	$0
Sales Tax, VAT, HST/GST Paid Out	$0	$0	$0	$0	$0
Principal Repayment of Current Borrowing	$0	$0	$0	$0	$0
Other Liabilities Principal Repayment	$0	$0	$0	$0	$0
Long-term Liabilities Principal Repayment	$0	$0	$0	$0	$0
Purchase Other Current Assets	$0	$0	$0	$0	$0
Purchase Long-term Assets	$0	$0	$0	$0	$0
Dividends	$0	$0	$0	$0	$0
Subtotal Cash Spent	$205,219	$588,600	$1,280,711	$2,318,658	$3,615,772
Net Cash Flow	$17,281	$51,200	$145,889	$336,342	$639,228
Cash Balance	$82,281	$133,481	$279,370	$615,712	$1,254,940



7.4 Balance Sheet Assumptions

IEO Company's Pro Forma Balance Sheet over the five-year projection period reflects a consistent strengthening of the company's financial position, supported by controlled asset growth, increasing retained earnings, and a conservative, debt-free capital structure. The company's financial model is aligned with a Software-as-a-Service operation in the U.S. healthcare technology sector, where liquidity, cost control, and disciplined expansion are critical to long-term operational stability.

In Year 1, total current assets are projected at $82,281, consisting entirely of cash. This liquidity position is expected to increase steadily as operations expand, reaching $133,481 in Year 2, $279,370 in Year 3, $615,712 in Year 4, and $1,254,940 by Year 5. The company maintains a lean operational structure, with no accounts receivable, inventory, or other current assets, reflecting a SaaS business model based on cash-collected subscription billing and disciplined cash management.

Long-term assets are not expected to represent a significant portion of the company's structure, as operations are not dependent on heavy capital investment beyond initial software development tools, cloud infrastructure, and computer equipment expensed at startup. Accumulated depreciation remains at zero across the projection period, reflecting the SaaS operating model in which technology resources are treated as operating expense and replaced on a rolling basis. As a result, total assets are projected to increase from

$82,281 in Year 1 to $1,254,940 in Year 5, supported entirely by increasing cash reserves generated through subscription and services operations.

On the liabilities side, IEO Company follows a conservative financial strategy with no short-term or long-term borrowing projected throughout the five-year period. Current liabilities remain at zero across the projection horizon as the company operates on a cash-paid basis for ongoing operational expenses, consistent with the cash-collected revenue model.

Paid-in capital remains constant at $120,000 throughout the projection period, reflecting the founder's initial investment contribution. Retained earnings show consistent improvement, beginning with a deficit of ($55,000) in Year 1 (reflecting the startup expenses absorbed during business formation), recovering toward zero during Year 1, and increasing to $495,800 by the end of Year 5 as profitability strengthens over time. Annual earnings are projected to grow from $17,281 in Year 1 to $639,228 in Year 5, reflecting subscription revenue expansion, operational scaling, and disciplined expense management.

As a result, total capital increases from $82,281 in Year 1 to $1,254,940 in Year 5, demonstrating a steady accumulation of equity and financial strength. Net worth follows the same trajectory, increasing from $82,281 to $1,254,940 over the projection period.

Overall, the balance sheet reflects a financially stable and scalable operation, where growth is supported by internally generated cash flow, controlled liabilities, and disciplined operational expansion. This structure positions IEO Company to maintain financial resilience while expanding its software services throughout the U.S. healthcare energy optimization market.

7.4.1 Annual Balance Sheet Table

Pro Forma Balance Sheet					
	Year 1	Year 2	Year 3	Year 4	Year 5
Assets					
Current Assets					
Cash	$82,281	$133,481	$279,370	$615,712	$1,254,940
Accounts Receivable	$0	$0	$0	$0	$0
Inventory	$0	$0	$0	$0	$0
Other Current Assets	$0	$0	$0	$0	$0
Total Current Assets	$82,281	$133,481	$279,370	$615,712	$1,254,940
Long-term Assets					
Long-term Assets	$0	$0	$0	$0	$0
Accumulated Depreciation	$0	$0	$0	$0	$0
Total Long-term Assets	$0	$0	$0	$0	$0
Total Assets	$82,281	$133,481	$279,370	$615,712	$1,254,940
Liabilities and Capital	Year 1	Year 2	Year 3	Year 4	Year 5

Pro Forma Balance Sheet					
Current Liabilities					
Accounts Payable	$0	$0	$0	$0	$0
Current Borrowing	$0	$0	$0	$0	$0
Other Current Liabilities	$0	$0	$0	$0	$0
Subtotal Current Liabilities	$0	$0	$0	$0	$0
Long-term Liabilities	$0	$0	$0	$0	$0
Total Liabilities	$0	$0	$0	$0	$0
Paid-in Capital	$120,000	$120,000	$120,000	$120,000	$120,000
Retained Earnings	($55,000)	($37,719)	$13,481	$159,370	$495,712
Earnings	$17,281	$51,200	$145,889	$336,342	$639,228
Total Capital	$82,281	$133,481	$279,370	$615,712	$1,254,940
Total Liabilities and Capital	$82,281	$133,481	$279,370	$615,712	$1,254,940
Net Worth	$82,281	$133,481	$279,370	$615,712	$1,254,940

7.5 Future Funding Strategy

The financial plan presented in this document is constructed on a fully self-funded basis, using the $120,000 founder investment described in Section 2.5 and the operating cash flows generated by the subscription business. The company is not dependent on external capital at any point during the Year 1 to Year 5 projection period. This funding profile is appropriate for the early-stage product-market fit phase and avoids the dilution and governance complexity associated with premature institutional capital.

The company recognizes that institutional capital may become an appropriate option in later phases of growth, contingent on the achievement of operational and commercial milestones that materially reduce execution risk for a prospective investor. The company's view of structured future-funding milestones is as follows:

Gate A, Late Year 1 to Early Year 2, Pre-seed optionality. Trigger conditions include a minimum-viable version of the IEO platform deployed in production at one or more pilot hospitals, with measured per-system energy data flowing through the analytics pipeline. A discretionary pre-seed financing in the $300,000 to $500,000 range may be considered to accelerate the product roadmap and hospital pilot expansion. This stage of capital is not required for the company to remain operationally cash-positive, as the base financial model reflects.

Gate B, Year 2 to Early Year 3, Seed financing. Trigger conditions include validated energy savings of at least the lower bound of the documented per-device range ($9,225 to $14,328 per device per year) at the pilot hospitals, at least three paying hospital customers under multi-year subscription contracts, and annualized recurring revenue of approximately $300,000 or more. A seed financing in the $1,000,000 to $2,000,000 range may be considered to fund accelerated geographic expansion and engineering depth.

Gate C, Year 3 onward, Series A. Trigger conditions include a multi-state customer footprint, demonstrated subscription payback periods of twelve months or less, and a repeatable customer-acquisition motion. A Series A financing may be considered to scale the sales organization, accelerate platform development, and extend coverage to additional imaging modalities such as PET, mammography, and ultrasound.

The Founder retains discretion at each gate to defer or decline external capital if the operating model continues to generate sufficient cash flow to support the company's national rollout plan, and the company is structured to remain viable on a fully self-funded basis through Year 5 regardless of whether any of the above gates are exercised.

8.0 Mr. Julio Conforto's National-Level Impact

Mr. Julio Conforto's establishment of IEO Company in the United States is expected to deliver national-level impact across multiple dimensions of the U.S. healthcare and energy infrastructure landscape. The combination of his specialized engineering background, more than ten years of MRI and CT field service experience, his academic and scientific credentials, and his commitment to a vendor-neutral, modality-specific SaaS architecture positions him to make a measurable contribution to several U.S. national priorities, including healthcare cost reduction, energy infrastructure resilience, sustainability and climate mitigation, federal sustainability mandate compliance, and domestic software innovation in healthcare technology.

Reducing U.S. Healthcare Operating Costs

U.S. national health expenditure reached $5.3 trillion in 2024, approximately 18 percent of GDP, and is projected to reach $8.6 trillion by 2033 (more than 20 percent of GDP). U.S. healthcare facilities collectively spend more than $9.7 billion per year on energy. The IEO platform directly reduces hospital energy operating cost at the modality level. Documented peer-reviewed off-hours power-down studies report savings of $9,225 to $14,328 per MRI or CT device per year, achieved with zero capital expenditure. Across the U.S. installed base of approximately 13,000 MRI and 14,000 CT systems, the total addressable savings opportunity in imaging idle-state energy alone reaches approximately $200 million to $400

million per year. IEO Company's national SaaS rollout contributes directly to capturing this addressable opportunity for U.S. hospitals.[39][40][41][42]

Strengthening U.S. Energy Infrastructure Resilience

The North American Electric Reliability Corporation 2024 Long-Term Reliability Assessment classifies more than half of North America as facing potential electricity-supply shortages in the coming decade, with 122,000 megawatts of dispatchable generation set to retire over ten years while demand surges from data centers, electrification, and industrial growth. MISO (Detroit's grid operator) is classified as the only high-risk region in North America. By moving MRI and CT energy consumption from peak periods to off-peak periods through software-driven load-shifting, the IEO platform directly contributes to grid resilience, reducing peak demand contribution from one of the most energy-intensive sectors of the U.S. economy and freeing capacity for other critical loads.[43][44]

Advancing Healthcare Sustainability and Climate Mitigation

The U.S. health sector accounts for approximately 8.5 percent of national greenhouse-gas emissions, with scope-2 (purchased electricity) representing a substantial and operationally controllable share. Documented Better Buildings healthcare partners covering 700 million square feet have saved more than $340 million since 2011 through demand-side optimization, with case studies including Cleveland Clinic achieving 22 percent energy savings across 18 million square feet, Dell Children's Medical Center achieving 25 percent reduction and $324,000 per year savings, and UW Health participating in utility-paid demand-response programs. The IEO platform extends this proven savings methodology

[39] Centers for Medicare and Medicaid Services, National Health Expenditure Fact Sheet 2024: https://www.cms.gov/data-research/statistics-trends-and-reports/national-health-expenditure-data/nhe-fact-sheet
[40] U.S. Department of Energy, Better Buildings Healthcare Sector: https://betterbuildingssolutioncenter.energy.gov/sectors/healthcare
[41] PMC, Off-Hours Power-Down Studies for Medical Imaging Devices: https://pmc.ncbi.nlm.nih.gov/articles/PMC10902235/
[42] Health System Tracker (KFF / Peterson Center), Comparing US Healthcare Resources: https://www.healthsystemtracker.org/chart-collection/u-s-health-care-resources-compare-countries/
[43] North American Electric Reliability Corporation (NERC), 2024 Long-Term Reliability Assessment: https://www.nerc.com/globalassets/our-work/assessments/2024-ltra_corrected_july_2025.pdf
[44] Utility Dive, MISO Capacity Shortfall Survey: https://www.utilitydive.com/news/miso-midcontinent-capacity-shortfalls-OMS-survey/625351/

specifically to MRI and CT imaging, the densest electrical loads within hospitals, and supports scope-2 emissions reductions across the U.S. hospital sector.[4546]

Supporting Federal Sustainability Disclosure and Certification Mandates

Recent federal and standards-body actions have shifted hospital sustainability from voluntary to mandatory. Executive Order 14057 (Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability, December 2021) requires a 65 percent Scope 1+2 federal greenhouse-gas reduction by 2030 and net-zero federal building portfolio by 2045, directly binding HHS facilities and the 170+ hospitals operated by the Veterans Health Administration. The SEC Climate Disclosure Rule (finalized March 2024) requires large-accelerated filers to disclose material Scope 1 and Scope 2 emissions, affecting the approximately 26 percent of U.S. hospitals that are for-profit and the public-company parents of many non-profit healthcare delivery organizations. The Joint Commission Sustainable Healthcare Certification (launched 2024) requires designated GHG-reduction leadership, measurement, goals, and annual tracking. The Inflation Reduction Act Section 13303 expanded the 179D Energy-Efficient Commercial Buildings Deduction to non-profit hospitals via designer allocation, providing up to $5.00 per square foot for documented energy reductions. The IEO platform provides directly usable measurement, documentation, and reporting infrastructure for each of these mandates, helping U.S. hospitals comply with federal sustainability requirements at lower internal cost.[47484950]

Advancing Domestic Software Innovation in U.S. Healthcare Technology

The global Healthcare Software-as-a-Service market reached $25.13 billion in 2024 and is projected to reach $74.74 billion by 2030 at a compound annual growth rate of 20.0 percent. Gartner forecasts U.S. healthcare and life-sciences enterprise IT spending at $265.2 billion in 2024, growing 9.5 percent year over year, with software growing 13.4 percent. By building a domestic, U.S.-based SaaS company that occupies the unfilled niche of vendor-neutral,

[45] Eckelman & Sherman, Health Affairs, U.S. Health Care Sector Greenhouse Gas Emissions, 2020: https://www.healthaffairs.org/doi/10.1377/hlthaff.2020.01247
[46] U.S. Department of Energy, Better Buildings Healthcare Sector: https://betterbuildingssolutioncenter.energy.gov/sectors/healthcare
[47] Executive Order 14057, Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability, December 2021: https://www.sustainability.gov/pdfs/EO_14057_Implementing_Instructions.pdf
[48] Securities and Exchange Commission, Climate Disclosure Rule, March 2024: https://blogs.law.columbia.edu/climatechange/2024/07/23/the-secs-climate-disclosure-rule-will-reveal-healthcares-significant-climate-risk-exposure/
[49] The Joint Commission, Sustainable Healthcare Certification: https://www.jointcommission.org/en-us/certification/sustainable-healthcare
[50] U.S. Internal Revenue Service, Energy-Efficient Commercial Buildings Deduction (Section 179D): https://www.irs.gov/credits-deductions/energy-efficient-commercial-buildings-deduction

modality-level imaging-energy optimization, IEO Company contributes to U.S. leadership in healthcare software innovation and to the development of a defensible domestic capability in a sector that is increasingly strategic to both healthcare and energy infrastructure.[5152]

Improving U.S. Healthcare Workforce Productivity and Operational Capacity

Hospital sustainability officers, biomedical engineering managers, radiology administrators, and finance leaders typically lack dedicated analytic tooling to attribute electricity spend to specific imaging modalities, identify load-shifting opportunities, or document scope-2 emissions for disclosure purposes. The IEO platform provides automated, continuous-loop analytics that free hospital staff from manual data collection and analysis, allowing the existing healthcare workforce to focus on clinical operations, patient experience, and high-judgment operational decisions. Across the approximately 6,120 U.S. hospitals, including the 5,129 community hospitals identified by the American Hospital Association, the productivity improvement from automated energy intelligence represents substantial reclaimed operational capacity.[53]

9.0 Indirect Jobs Creation - Economic Policy Institute

The Economic Policy Institute (EPI) publishes industry-specific employment multipliers that estimate the total U.S. employment impact of direct job creation in each major industry. For IEO Company, the most directly applicable industry classification is NAICS 5415, Computer Systems Design and Related Services, which covers custom-developed software services sold on a subscription basis with implementation and integration support, the precise structure of the IEO business model. According to EPI's published multipliers, every 100 direct jobs created in this industry support approximately 400 to 500 additional indirect and induced jobs across the broader economy, for a total employment multiplier in the range of 5.0 to 6.0.[54]

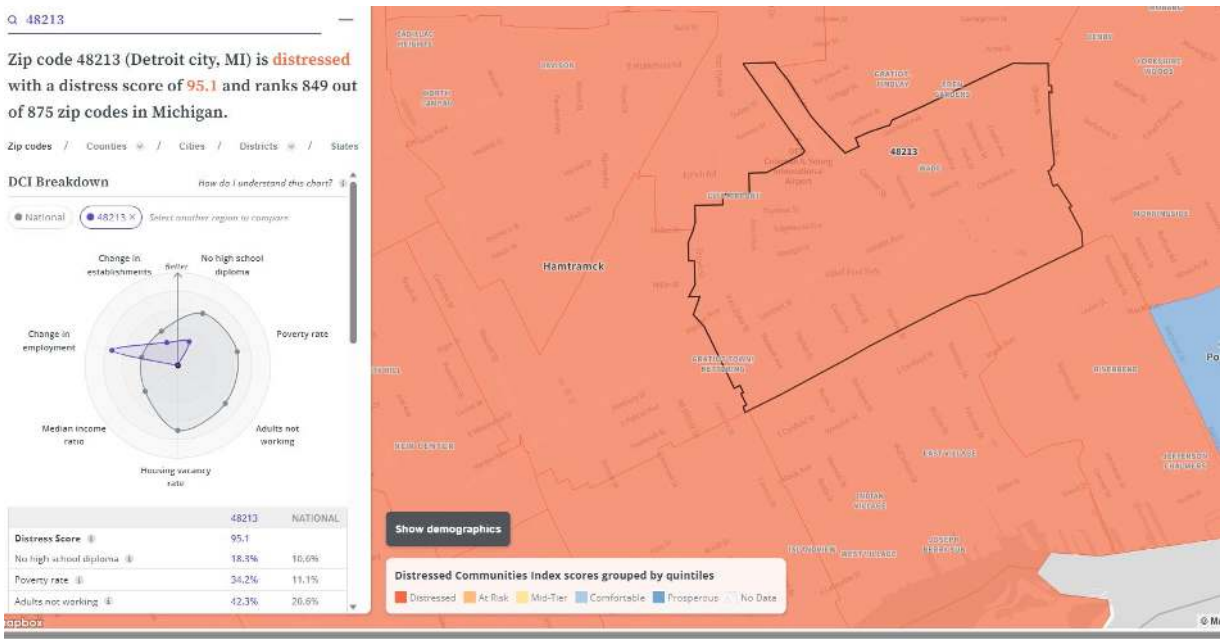
Applying this methodology to IEO Company's planned five-year workforce of 15 direct jobs by Year 5 yields a projected total employment impact in the range of 75 to 90 jobs across the U.S. economy, comprising the 15 direct positions at IEO Company, approximately 40 to 50 indirect supplier jobs in upstream sectors (cloud computing services, software tools and

[51] Grand View Research, Healthcare SaaS Market Report: https://www.grandviewresearch.com/industry-analysis/healthcare-software-as-a-service-market-report
[52] Gartner Forecast, Healthcare and Life Sciences Enterprise IT Spending, 2024: https://www.gartner.com/en/documents/5378463
[53] American Hospital Association, AHA Fast Facts on US Hospitals 2024: https://www.aha.org/system/files/media/file/2024/01/fast-facts-on-us-hospitals-2024-20240112.pdf
[54] Economic Policy Institute (Bivens), Updated Employment Multipliers for the U.S. Economy, January 2019: https://www.epi.org/publication/updated-employment-multipliers-for-the-u-s-economy/

licenses, data and energy data providers, marketing and content production services, professional and legal services, recruitment services, training and education services, and physical office and equipment vendors), and approximately 20 to 25 induced jobs in the broader Detroit and U.S. economies where the direct and supplier workers spend their wages. This indirect and induced employment impact is concentrated in technically skilled supplier sectors that align with U.S. priorities for advanced software, cloud infrastructure, and professional services workforce development.[55]

9.1 Community Profile and Business Environment

IEO Company's establishment in the Detroit metropolitan area will contribute directly to economic activity in a market that, despite its substantial healthcare and industrial base, contains significant pockets of distressed community territory. The Economic Innovation Group (EIG) Distressed Communities Index scores ZIP codes 0 to 100 across seven equally-weighted indicators, including educational attainment, housing vacancy, unemployment rate, poverty rate, median income ratio, change in employment, and change in business establishments. Detroit consistently ranks among the most distressed large U.S. cities, alongside Memphis, Buffalo, Baltimore, and Milwaukee.[56][57]



[55] Economic Policy Institute (Bivens), Updated Employment Multipliers for the U.S. Economy, January 2019: https://www.epi.org/publication/updated-employment-multipliers-for-the-u-s-economy/
[56] Economic Innovation Group, Distressed Communities Index Methodology: https://eig.org/about-the-dci/
[57] Economic Innovation Group, Detroit Memphis Lead Distressed Community Rankings: https://eig.org/news/detroit-memphis-lead-new-distressed-community-rankings

ZIP code 48213, on Detroit's East Side, is representative of the distressed community territory within the company's home metropolitan area. According to U.S. Census American Community Survey data, ZIP 48213 has a poverty rate of 37.0 percent, more than four times the national rate; a median household income of $33,755, less than half of the national median; and only 8.4 percent of adults aged 25 and older holding a bachelor's degree or higher, compared to a national average of approximately 35 percent. The neighborhood is predominantly African American and reflects the legacy of deindustrialization-era economic disinvestment that continues to shape the city's demographic and economic profile.[58]

By operating from the Detroit metropolitan area, IEO Company will contribute to the local economy through qualified software-sector employment creation, payroll, supplier purchases from regional providers, tax contributions, and engagement with regional educational and apprenticeship pathways in software development and healthcare technology. The company's commitment to internal training and structured career development creates accessible pathways for residents from distressed communities to enter skilled technical occupations with above-average wages and strong long-term employment outlook. As the company scales from three to fifteen employees by Year 5, and as its indirect and induced employment effects reach approximately 75 to 90 total positions, the cumulative contribution to the Detroit-area economy will support broader community resilience, software-sector workforce development, and economic mobility in one of the country's most distressed urban regions.

[58] ZipDataMaps, Detroit ZIP 48213 Profile (East Side): https://www.zipdatamaps.com/48213

APPENDIX

This appendix presents the company's monthly financial projections for Year 1, supporting the annual figures shown in Section 7 of this business plan. The monthly tables provide visibility into the staggered hiring schedule, the subscription customer ramp, and the cash trajectory that underpin the annual projections.

Table: Monthly Sales Forecast (Year 1)

Sales Forecast													
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Unit Sales													
MRI System Subscription		0	0	0	5	5	10	10	15	15	20	20	25
CT System Subscription		0	0	0	8	8	16	16	24	24	32	32	40
Implementation Services		0	0	0	1	0	1	0	1	0	1	0	1
Strategic Advisory Services		0	0	0	0	0	0	0	0	0	0	0	0
Total Unit Sales		0	0	0	14	13	27	26	40	39	53	52	66
Unit Prices		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
MRI System Subscription		$500.00	$500.00	$500.00	$500.00	$500.00	$500.00	$500.00	$500.00	$500.00	$500.00	$500.00	$500.00
CT System Subscription		$300.00	$300.00	$300.00	$300.00	$300.00	$300.00	$300.00	$300.00	$300.00	$300.00	$300.00	$300.00
Implementation Services		$20,000.00	$20,000.00	$20,000.00	$20,000.00	$20,000.00	$20,000.00	$20,000.00	$20,000.00	$20,000.00	$20,000.00	$20,000.00	$20,000.00
Strategic Advisory Services		$250.00	$250.00	$250.00	$250.00	$250.00	$250.00	$250.00	$250.00	$250.00	$250.00	$250.00	$250.00
Sales													
MRI System Subscription		$0	$0	$0	$2,500	$2,500	$5,000	$5,000	$7,500	$7,500	$10,000	$10,000	$12,500
CT System Subscription		$0	$0	$0	$2,400	$2,400	$4,800	$4,800	$7,200	$7,200	$9,600	$9,600	$12,000
Implementation Services		$0	$0	$0	$20,000	$0	$20,000	$0	$20,000	$0	$20,000	$0	$20,000
Strategic Advisory Services		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Sales		$0	$0	$0	$24,900	$4,900	$29,800	$9,800	$34,700	$14,700	$39,600	$19,600	$44,500
Direct Unit Costs		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
MRI System Subscription	5.00%	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00
CT System Subscription	5.00%	$15.00	$15.00	$15.00	$15.00	$15.00	$15.00	$15.00	$15.00	$15.00	$15.00	$15.00	$15.00
Implementation Services	5.00%	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00
Strategic Advisory Services	2.00%	$5.00	$5.00	$5.00	$5.00	$5.00	$5.00	$5.00	$5.00	$5.00	$5.00	$5.00	$5.00

Sales Forecast													
Direct Cost of Sales													
MRI System Subscription		$0	$0	$0	$125	$125	$250	$250	$375	$375	$500	$500	$625
CT System Subscription		$0	$0	$0	$120	$120	$240	$240	$360	$360	$480	$480	$600
Implementation Services		$0	$0	$0	$1,000	$0	$1,000	$0	$1,000	$0	$1,000	$0	$1,000
Strategic Advisory Services		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Direct Cost of Sales		$0	$0	$0	$1,245	$245	$1,490	$490	$1,735	$735	$1,980	$980	$2,225

Table: Monthly Personnel Plan (Year 1)

Personnel Plan													
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Founder, General Manager & Chief Domain Officer - Mr. Julio Conforto		$5,500	$5,500	$5,500	$5,500	$5,500	$5,500	$5,500	$5,500	$5,500	$5,500	$5,500	$5,500
Senior Software Engineer (Backend & Data)		$0	$0	$0	$7,000	$7,000	$7,000	$7,000	$7,000	$7,000	$7,000	$7,000	$7,000
Healthcare Operations Analyst		$0	$0	$0	$0	$0	$0	$0	$0	$4,000	$4,000	$4,000	$4,000
Product Manager		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Sales & Business Development		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Customer Success Manager		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Energy Systems Engineer		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total People		1	1	1	2	2	2	2	2	3	3	3	3
Total Payroll		$5,500	$5,500	$5,500	$12,500	$12,500	$12,500	$12,500	$12,500	$16,500	$16,500	$16,500	$16,500

Table: Monthly Profit and Loss (Year 1)

Pro Forma Profit and Loss													
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Sales		$0	$0	$0	$24,900	$4,900	$29,800	$9,800	$34,700	$14,700	$39,600	$19,600	$44,500
Direct Cost of Sales		$0	$0	$0	$1,245	$245	$1,490	$490	$1,735	$735	$1,980	$980	$2,225
Total Cost of Sales		$0	$0	$0	$1,245	$245	$1,490	$490	$1,735	$735	$1,980	$980	$2,225
Gross Margin		$0	$0	$0	$23,655	$4,655	$28,310	$9,310	$32,965	$13,965	$37,620	$18,620	$42,275
Gross Margin %		-	-	-	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
Expenses													
Payroll		$5,500	$5,500	$5,500	$12,500	$12,500	$12,500	$12,500	$12,500	$16,500	$16,500	$16,500	$16,500
Rent		$250	$250	$250	$250	$250	$250	$250	$250	$250	$250	$250	$250
Insurance		$417	$417	$417	$417	$417	$417	$417	$417	$416	$416	$416	$416
Marketing/Promotion		$417	$417	$417	$417	$417	$417	$417	$417	$416	$416	$416	$416
Sales Commissions		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Software\& Cloud Tools		$417	$417	$417	$417	$417	$417	$417	$417	$416	$416	$416	$416
Conferences \& Travel		$167	$167	$167	$167	$167	$167	$167	$167	$166	$166	$166	$166
Professional Services		$417	$417	$417	$417	$417	$417	$417	$417	$416	$416	$416	$416
Equipment\& Office		$250	$250	$250	$250	$250	$250	$250	$250	$250	$250	$250	$250
Advertising		$167	$167	$167	$167	$167	$167	$167	$167	$166	$166	$166	$166
Partner\& Integration		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Recruitment		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Training \& Education		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Advisory Delivery		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Payroll Taxes	10%	$550	$550	$550	$1,250	$1,250	$1,250	$1,250	$1,250	$1,650	$1,650	$1,650	$1,650
Total Operating Expenses		$8,552	$8,552	$8,552	$16,252	$16,252	$16,252	$16,252	$16,252	$20,646	$20,646	$20,646	$20,646
Profit Before Interest and Taxes		($8,552)	($8,552)	($8,552)	$7,403	($11,597)	$12,058	($6,942)	$16,713	($6,681)	$16,974	($2,026)	$21,629
EBITDA		($8,552)	($8,552)	($8,552)	$7,403	($11,597)	$12,058	($6,942)	$16,713	($6,681)	$16,974	($2,026)	$21,629
Interest Expense		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Taxes Incurred		$0	$0	$0	$455	$0	$741	$0	$1,027	$0	$1,043	$0	$1,328
Net Profit		($8,552)	($8,552)	($8,552)	$6,948	($11,597)	$11,317	($6,942)	$15,686	($6,681)	$15,931	($2,026)	$20,301
Net Profit/Sales		-	-	-	27.90%	-236.67%	37.98%	-70.84%	45.20%	-45.45%	40.23%	-10.34%	45.62%

Table: Monthly Cash Flow (Year 1)

Pro Forma Cash Flow													
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Cash Received													
Cash from Operations													
Cash Sales		$0	$0	$0	$24,900	$4,900	$29,800	$9,800	$34,700	$14,700	$39,600	$19,600	$44,500
Cash from Receivables		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Cash from Operations		$0	$0	$0	$24,900	$4,900	$29,800	$9,800	$34,700	$14,700	$39,600	$19,600	$44,500
Additional Cash Received													
Non-Operating (Other) Income		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Sales Tax, VAT, HST/GST Received		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
New Current Borrowing		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
New Other Liabilities (interest-free)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
New Long-term Liabilities		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Sales of Other Current Assets		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Sales of Long-term Assets		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
New Investment Received		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Cash Received		$0	$0	$0	$24,900	$4,900	$29,800	$9,800	$34,700	$14,700	$39,600	$19,600	$44,500
Expenditures		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Expenditures from Operations													
Cash Spending		$8,552	$8,552	$8,552	$17,952	$16,497	$18,483	$16,742	$19,014	$21,381	$23,669	$21,626	$24,199
Bill Payments		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Spent on Operations		$8,552	$8,552	$8,552	$17,952	$16,497	$18,483	$16,742	$19,014	$21,381	$23,669	$21,626	$24,199
Additional Cash Spent													
Non-Operating (Other) Expense		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Sales Tax, VAT, HST/GST Paid Out		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Principal Repayment of Current Borrowing		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Other Liabilities Principal Repayment		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Long-term Liabilities Principal Repayment		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Purchase Other Current Assets		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Purchase Long-term Assets		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Dividends		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Cash Spent		$8,552	$8,552	$8,552	$17,952	$16,497	$18,483	$16,742	$19,014	$21,381	$23,669	$21,626	$24,199
Net Cash Flow		($8,552)	($8,552)	($8,552)	$6,948	($11,597)	$11,317	($6,942)	$15,686	($6,681)	$15,931	($2,026)	$20,301
Cash Balance		**$56,448**	**$47,896**	**$39,344**	**$46,292**	**$34,695**	**$46,012**	**$39,070**	**$54,756**	**$48,075**	**$64,006**	**$61,980**	**$82,281**

Table: Monthly Balance Sheet (Year 1)

Pro Forma Balance Sheet													
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Assets	Starting Balances												
Current Assets													
Cash	$65,000	$56,448	$47,896	$39,344	$46,292	$34,695	$46,012	$39,070	$54,756	$48,075	$64,006	$61,980	$82,281
Accounts Receivable	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Inventory	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Other Current Assets	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Current Assets	$65,000	$56,448	$47,896	$39,344	$46,292	$34,695	$46,012	$39,070	$54,756	$48,075	$64,006	$61,980	$82,281
Long-term Assets													
Long-term Assets	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Accumulated Depreciation	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Long-term Assets	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Assets	$65,000	$56,448	$47,896	$39,344	$46,292	$34,695	$46,012	$39,070	$54,756	$48,075	$64,006	$61,980	$82,281
Liabilities and Capital		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Current Liabilities													
Accounts Payable	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Current Borrowing	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Other Current Liabilities	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Current Liabilities	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Long-term Liabilities	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Liabilities	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Paid-in Capital	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000
Retained Earnings	($55,000)	($55,000)	($55,000)	($55,000)	($55,000)	($55,000)	($55,000)	($55,000)	($55,000)	($55,000)	($55,000)	($55,000)	($55,000)
Earnings	$0	($8,552)	($17,104)	($25,656)	($18,708)	($30,305)	($18,988)	($25,930)	($10,244)	($16,925)	($994)	($3,020)	$17,281
Total Capital	$65,000	$56,448	$47,896	$39,344	$46,292	$34,695	$46,012	$39,070	$54,756	$48,075	$64,006	$61,980	$82,281
Total Liabilities and Capital	$65,000	$56,448	$47,896	$39,344	$46,292	$34,695	$46,012	$39,070	$54,756	$48,075	$64,006	$61,980	$82,281
Net Worth	**$65,000**	**$56,448**	**$47,896**	**$39,344**	**$46,292**	**$34,695**	**$46,012**	**$39,070**	**$54,756**	**$48,075**	**$64,006**	**$61,980**	**$82,281**

Elevating Your Sustainability & Decarbonization Efforts

November 6, 2023

The Joint Commission

Today's Agenda

- Introduction
- Purpose of Sustainable Healthcare Certification Program
- Video
- Value & Benefits of Certification
- Certification Requirements
- Resource Center Overview
- Overview of Review Process
- Wrap-Up & Q&A

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Poll Question #1

Purpose of Sustainable Healthcare Certification



Kathryn Petrovic, MSN, RN

Director, Department of Standards & Survey Methods

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Why Important?

Healthcare sector is contributing disproportionately to climate change

Environment impacts our health contributing to chronic diseases and acute illnesses

Shared mission toward doing good for all people



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Sustainable Healthcare Certification (SHC)

Hospitals/Critical Access Hospitals (HAP/CAH)

- **Voluntary program** awarded for 2 years
- Available to TJC-accredited and non-TJC-accredited
- Awarded at the **organization level**
- As a nationally-recognized standards developer, requested by healthcare organizations
- **Provides a framework** to expand or continue organization's decarbonization efforts
- **Provides public recognition** of an organization's commitment and achievements in contributing to environmental sustainability
- Live **January 1, 2024**!

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Video

Program Benefits



Chad Larson, MBA

Executive Director, Hospital Accreditation & Certification Programs

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Why Sustainable Healthcare Certification?

- To evaluate and recognize hospitals that have established a robust set of structures and processes and have made decreasing their carbon footprint a strategic priority.
  - Certification is a symbol of pride to share with their staff, leadership, patients, and community.
- To provide a road map that others can follow to advance sustainability practices.
  - Some may not be able to meet all requirements to be certified.
  - However, with the standards as goals and the resources as tools, they can slow and steadily move forward on this journey.

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Sustainability Program Outcomes

- CommonSpirit Health's sustainability program has yielded tangible cost savings:
  - Installation of LED lighting in 28 hospitals reduced greenhouse gas emissions and energy usage, saving $10 million a year
  - Retro-commissioning infrastructure and HVAC systems, resulted in 5-12% savings on energy use
- CBEC data from Health Care Without Harm's Energy and Health Impact Calculator showed a 30% cut in healthcare electricity's carbon pollution by 2030 would reduce greenhouse gas emissions that could result in preventing:
  - 4,130 premature deaths
  - 85,000 asthma attacks
  - 4 million respiratory symptom events
  - 3,750 hospital visit incidents
  - Save approximattely $1.2 billion in medical costs
- A strong sustainability record delivers a competitive advantage in staff recruitment and retention:
  - Nearly half of 18-34-year-olds say they would look for a new role if they thought their employer was not committed to improving environmental sustainability (Robert Half, 2022)

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Poll Question #2

Program Benefits

Environmental impact

- Certification encourages hospitals to focus on reducing their environmental impact by implementing energy-efficient practices, reducing waste and emissions.
- Achieving sustainability goals can contribute to the broader efforts of environmental conservation and preservation.

Improved health outcomes

- Sustainable practices in hospitals can lead to improved health outcomes for patients, staff, and the community.
- Reducing chemical exposures, improving air quality, and implementing infection control measures creates healthier environments that promote healing and prevent the transmission of diseases.

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Program Benefits

Reputation in the community	• Achieving sustainability certification demonstrates a commitment towards responsible and ethical practices. • Attract patients, employees, and stakeholders who prioritize sustainable healthcare options. • Community engagement may foster partnerships and collaborations that address broader public health and environmental challenges. • Improved health outcomes – Air quality improvements and practices create a healthier environment.
Regulatory compliance	• Achieving and maintaining certification may provide opportunity to ensure legal and regulatory obligations are met. • Sustainability practices can help mitigate environmental, societal, and financial risks. • Help ensure hospitals are prepared to adapt to changing regulatory landscapes and potential disruptions.
Cost savings	• Implementing energy-efficient technologies and optimizing waste management strategies can aid operational efficiencies resulting in cost reductions. • Hospitals may qualify for tax incentives to finance climate resiliency and renewable energy infrastructure projects (i.e. Inflation Reduction Act). • Cost savings can be redirected to patient care, infrastructure improvements, research, and other critical areas.

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Program Requirements



Phavinee Thongkhong Park, RN, PhD.
Associate Director, Standards & Survey Methods
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Sustainable Healthcare Certification (SHC) Standards and EPs

Sustainable Healthcare Certification (SHC) Program aims to advance decarbonization in healthcare.

Standards

Leadership (SHCLD.01), (SHCLD.02)

Measurement (SHCME.01)

Performance Improvement (SHCPI.01)

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SHC LD Standards and EPs

SHCLD01. Environmental sustainability is a strategic priority for the organization.

- Written strategic plan
- Allocation of resources



SHCLD.02 The organization defines leadership responsibilities.

- Appoints a leader(s) for oversight of activities
- Develops and implements operational plans

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Sources of greenhouses gases

- *Energy use*
- *Purchased electricity*
- *Anesthetic gas use*
- *Pressurized metered-dose inhaler use*
- *Fleet vehicle carbon-based fuel use*
- *Waste disposal*



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SHC ME Standard and EPs

SHCME.01 The organization measures its greenhouse gas emissions.

- Measures three or more of the following:
  - Energy use (fuel combustion)
  - Purchased electricity (purchased grid electricity, district steam, chilled and hot water)
  - Anesthetic gas use, including volatile agents and nitrous oxide
  - Pressurized metered-dose inhaler use
  - Fleet vehicle carbon-based fuel use (from organization owned vehicles)
  - Waste disposal
- Converts greenhouse gas measurements to metric tons of carbon dioxide equivalents (MTCO2e).

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SHC PI Standard and EPs

SHCPI.01 The organization improves its environmental footprint by reducing its greenhouse gas emissions.

- Develop goals and implement action plans.
- Goals stated in percent reduction in MTCO2e.
- Analyze greenhouse gas emissions data annually.
- Determine goal(s) are met and revises its plan.



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Resource Center



Brette Tschurtz, MPH

Associate Director, Department of Research

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Sustainable Healthcare Resource Center

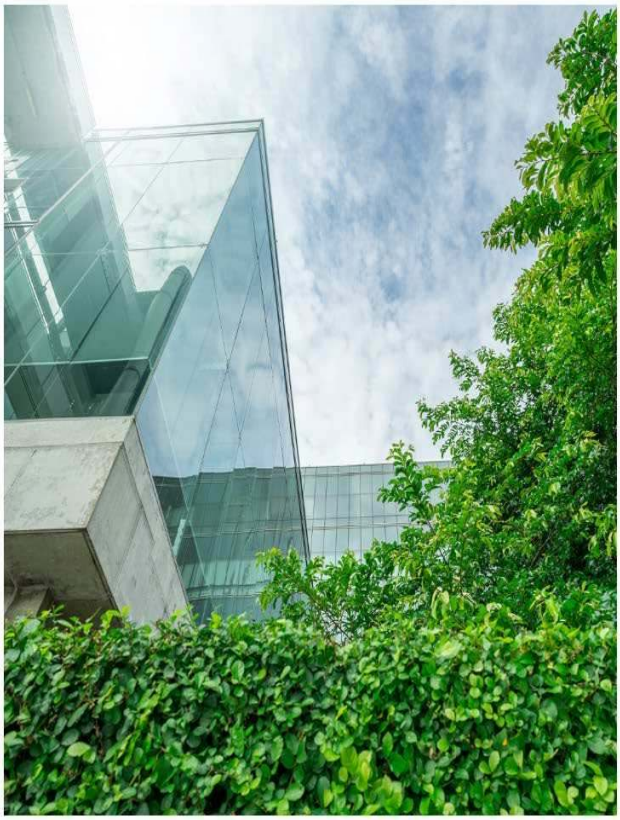
Hospitals consume energy and use materials that contribute to increased waste and greenhouse gas emissions. Estimates suggest that the healthcare industry accounts for approximately 8.5 percent of national carbon emissions. It is important that health care does its part to help improve its environmental footprint.



Sustainable Healthcare Resource Center

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About the Resource Center

Reducing greenhouse gas emissions while caring for patients doesn't have to be difficult — and can lead to significant returns on investment. The Joint Commission recognizes those organizations committed to reducing their carbon footprint through our Sustainable Healthcare Certification program. But no matter where you are in your environmental sustainability journey, this page offers best practices, tools, and resources across several domains.

For organizations just beginning their environmental sustainability journey, this resource center provides an on-ramp toward sustained decarbonization. And for those organizations that are well on their way, these resources offer innovative approaches and a chance to highlight your own strategies.

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SHC Resource Center Features

- **Strategies, tools and tips**: Find valuable guidance and actionable strategies to help guide your environmental journey



- **Spotlights**: Learn directly from leading organizations that embrace environmental sustainability, provides real world examples



- **Cost savings and ROI**: Highlights realized cost savings and returns on investment from organizations that have built a strong sustainability program



- **Key Resources**: Helpful literature, guidance documents, websites, tools, calculators produced by some of the most trusted names in healthcare environmental sustainability



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Important Components for Building an Environmental Sustainability Program

We know there is a lot of information to assist organizations on their environmental sustainability journey. We have curated and distilled many of these resources, strategies tools and best practices around an easy-to-use and accessible framework. This collection has basic information on how to get started, as well as innovation solutions for those for organizations that have already taken steps to improve their environmental footprint.



Leadership and Oversight



Assessment, Measurement & Improvement



Greenhouse Gas Reduction Strategies

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Leadership – Strategies and Practices

Getting Started

- Identify a champion and/or key stakeholders
- Appoint a leader who is responsible for activities to reduce greenhouse gas emissions
- Start small and build momentum — don't try to boil the ocean
- Build a "green team" or green committee that includes clinicians
- Set a clear vision with defined targets/goals
- Build sustainability projects with a clear business case; incorporate ES into existing service lines
- Incorporate environmental sustainability into strategic planning

Long Term Strategies

- Allocate resources (financial and human) for a long term strategy
- Develop policies that support decarbonization actions and interventions
- Foster a culture of sustainability; walk the talk, lead by example
- Collaborate and partner with external stakeholders (the community, suppliers, area hospitals)
- Incentivize staff efforts (remote work policies, subsidizing public transportation)

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Key Resources | Cost Savings (coming soon) | Spotlights (coming soon)

Search for leadership and oversight resources

Results **1**-**10** of **14**

RESOURCE

Reducing Healthcare Carbon Emissions: A Primer on Measure and Actions for Healthcare Organizations to Mitigate Climate Change

This primer serves as a starting point for a more comprehensive climate mitigation strategy that will require integrating environmental impacts into the definition of health care value, shifting to a circular economy, and expanding preventive models of care. (Source: Agency for Healthcare Research and Quality)

RESOURCE

Proven Practices for Sustainability Governance in Health Care: Structure and Staffing

This guide describes how leaders can design organizational structures, processes and governance for sustainability into existing organization imperatives. This resource includes several concrete examples of governance and staffing structures that present more of the "how" for its audience. (Source: Practice Greenhealth)

RESOURCE

Practice Greenhealth Health Care Emissions Impact Calculator

The Health Care Emissions Impact Calculator is an accounting tool specifically designed to help health care organizations measure their greenhouse gas (GHG) emissions. The calculator can be used to develop a GHG inventory at the facility and/or system level for all Scope 1, 2, and 3 emissions (can access calculator after filling out a form). (Source: Practice Greenhealth)

Important Components for Building an Environmental Sustainability Program

We know there is a lot of information to assist organizations on their environmental sustainability journey. We have curated and distilled many of these resources, strategies tools and best practices around an easy-to-use and accessible framework. This collection has basic information on how to get started, as well as innovation solutions for those for organizations that have already taken steps to improve their environmental footprint.



Leadership and Oversight



Assessment, Measurement & Improvement

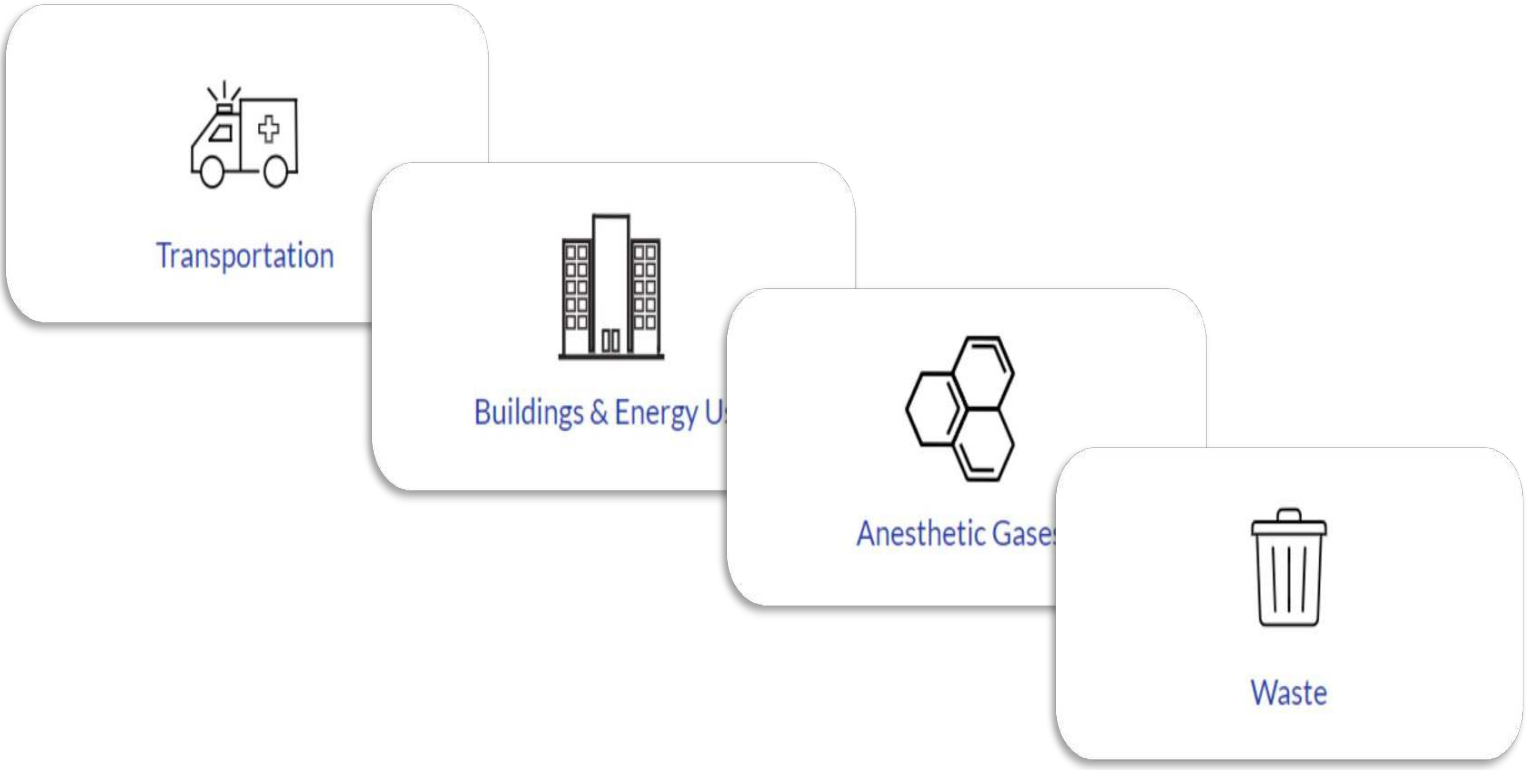


Greenhouse Gas Reduction Strategies

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GHG reduction strategies by domain



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Please visit... additional info coming soon!!

Access the resource center:

https://www.jointcommission.org/our-priorities/sustainable-healthcare/sustainable-healthcare-resource-center/

Stay tuned, coming soon…

- Spotlights – strategies and innovation from leading organizations
- Real-world cost savings examples

Please contact Brette Tschurtz at btschurtz@jointcommission.org if you'd like to have your organization's environmental sustainability initiatives featured on our Resource Center

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Sustainable Healthcare Certification: Review Process



Tim Markijohn, MBA\MHA, CHFM, CHE
Field Director
Division of Accreditation & Certification Operations
The Joint Commission

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Review Key Points

- Conducted completely offsite via Microsoft Teams
- One day Review by SHC experts
- Evaluating one HCO per review, not system level
- All documentation reviewed during the event, no documentation upload prior to review

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Pre-Review

- Review SHC standards and the Review Process Guide
- Utilize your Account Executive for any questions or concerns
- Notification 30 days in advance of initial Review, 7 business days for recertification
- Internet connection and hardware confirmation

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Opening Conference

- Include SHC leadership and other staff at discretion of organization
- Introductions
- Joint Commission and Certification overview
- Agenda review

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Planning Session

- Organizational Structure
- Written Strategic Plan
- Review baseline data for three emission sources (initial review)
- Review 24 months of data (recertification review)

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Organizational Environmental Sustainability Program

- Organization's decarbonization journey
- Key structures and processes to improve energy efficiency, decrease waste, and decreasing carbon footprint
- Coordination activities
- Operational plan development and implementation
- Decarbonization goals

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Measurement of Greenhouse Gases

- Greenhouse gas sources being measured (at least 3)
- Data gathering approach (centralized or decentralized)
- Activity data collection and emissions factors
- Application of calculation tools
- Converting activity data into MTCO2e

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Performance Improvement

- Approach to PI
- Data collection process
- Data quality
- Annual assessment of data to determine actions meet goals
- Revision of plan if goals are not achieved or maintained
- Reporting to leadership

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Summary Discussion

- Small group of SHC key staff
- Opportunity to review any IOUs and any unresolved issues
- Review identified Requirements for Improvement (RFI)
- Determine if RFIs will be discussed in detail at Exit Conference

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Exit Conference

- Include SHC leaders and other staff at discretion of organization
- Review RFIs if determined during Summary Discussion
- Identified Best Practices
- Post-review process

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Keys to a Successful Review

- Ensure there are skilled individuals to review the Electronic documents since there is no uploading
- Power Points Presentations for Opening
- Internet connection and hardware confirmation
- Determine what your program would like to accomplish during review and share with reviewer
- Ask Questions
- RELAX and BREATHE

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Next Steps

Steps to Becoming Certified

Contact The Joint Commission

- Email certification@jointcommission.org
- Review program requirements
- Work with dedicated Joint Commission staff to help prepare for review

Preparation

- Assess compliance and potential gaps to program requirements
- Review readiness resources
- Prepare for offsite/virtual review using Review Process Guide
- Determine ready date for certification review
- Complete a pre-application to become certified

Virtual Review

- 30 days advance notice
- Review strategic plan, decarbonization journey, structures and processes to decrease carbon footprint
- Review greenhouse gas emissions data measured, data collection process, annual data assessment, revision of plan if goal not met/sustained

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Pre-Application

Pre-Application for Sustainable Healthcare Certification

The Sustainable Healthcare certification officially goes live on January 1st, 2024, meaning the official application and onsite reviews will be available at that time.

This pre-application is an abbreviated questionnaire that can be submitted before January 1st, which allows an organization to identify a ready date for their initial onsite review and enter the scheduling queue. This is ideal for organizations that hope to be reviewed during the first few months after launch. The earlier you submit the pre-application, the earlier we begin the process of scheduling the review according to your ready date.

Once the formal application opens on January 1st, 2024, we will contact you to complete the entire application. In the



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Thank You

American Hospital Association™

(https://www.aha.org)

ASHE (/)

Optimizing health care facilities



Energy to Care Dashboard

SUSTAINABILITY ROADMAP FOR HEALTH CARE (HTTPS://WWW.AHA.ORG/SUSTAINABILITY) | HEALTH CARE FACILITIES (/SUSTAINABILITY)

ENERGY TO CARE | Get Involved | Education | Recognition

Adding value to your organization through energy

savings!



Access Dashboard (https://energytocare.talisenfim.com)

About Dashboard | Create a New Account | How to Use the Dashboard | Orientation Workshop

About Dashboard

ASHE’s Energy to Care Dashboard Tool offers an at-a-glance view of health care facilities' energy use. Designed to reduce user burden, the Energy to Care dashboard is easy to use.

There’s a misconception that sustainability programs and energy management are time consuming, but they don’t have to be. Sometimes the biggest impact to energy savings are made with simple changes. With the Energy to Care Dashboard’s benchmarks and monitoring, it only takes 15 minutes a day to impact around half of your facility’s budget.

The dashboard includes a number of features that will provide added benefits to Energy to Care participants, including:

- **Clean and Simple Interface**

- **Customized Information for AHA/ASHE Members**
  - Energy to Care Award progress for each site
  - Energy to Care Chapter Challenge reporting
- **ENERGY STAR® Data Options**
  - Existing ENERGY STAR® Portfolio Manager data can be imported
  - ENERGY STAR® logins are no longer required
  - Energy and facility data can be directly uploaded with Microsoft Excel templates
  - Data can be exported to ENERGY STAR® Portfolio Manager
  - New ENERGY STAR® score widget for convenient monitoring and updates
- **Energy and Cost Data Widgets**
  - Monthly utility bill consumption and cost database
  - Energy Cost Index (ECI) monitoring
  - Energy cost savings
  - Energy Usage Index (EUI) monitoring
  - Annual and monthly energy performance measurement and verification
  - Weather data (HDD/CDD) overlays
- **Utility bill fault detection:**
  - Gaps in data due to potentially missing utility bills
  - Duplicative utility bills
  - Significant increases in monthly energy consumption and cost

---

A Note About Energy to Care Dashboard Roles

The Dashboard provides four possible roles for each Energy to Care User Account:

1. **Existing Organization Administrator:** Select this if you are your organization's existing ENERGY STAR Property Data Administrator.
2. **New Organization Administrator:** Select this if you did not have data shared with ASHE via ENERGY STAR Portfolio Manager.
3. **New Subscriber:** Select this if you are requesting access to buildings in existing organizations.
4. **Existing Subscriber:** Select this if you are requesting access to new hospital buildings in their organization.

The **Organization Administrator** will manage the account for all buildings associated with the organization. Additionally, this individual will allow for subscriber rights to other users, including other organization members and any partner companies that might need access.

A Note About Data Sharing

Your data will not be distributed or shared with any other entity without the express written consent of the participating health care system **Click here (https://www.aha.org/2021-03-12-privacy-policy)** to review the Energy to Care Data Use Policy. In some instances facilities find it necessary to share their accounts with individuals outside of their organization. In these events, ASHE requires express written consent from the participating facility prior to authorizing users. If you wish to share your Energy to Care Data with individuals outside of your organization complete the Energy to Care Organization Administrator must complete **this form (/system/files/media/file/2019/12/102219-Energy_To_Care_Data_Share_Authorization_Form.pdf)** and submit to ASHE **energytocare@aha.org (mailto:energytocare@aha.org)**. ASHE will provide access to the account once this form has been received.

Question? Please contact the Energy to Care Helpdesk at energytocare@aha.org (mailto:energytocare@aha.org).

Key Resources

Energy To Care Data Share Authorization form

RELATED TOPICS: Hospital Data (/topics/hospital-data) Sustainability (/topics/sustainability) Decarbonization (/topics/decarbonization) Energy Management (/topics/energy-management) Benchmarking (/topics/benchmarking)
Health Care Facility Technology Systems (/topics/health-care-facility-technology-systems)
Performance improvement (/topics/performance-improvement)
Planning, Design, and Construction (/topics/planning-design-and-construction)

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An official website of the United States government Here's how you know

Benchmark Your Building With Portfolio Manager

What is Benchmarking?

The first step to saving energy at your building is to benchmark — that is, to measure and compare your building's energy to similar buildings, past consumption, or a reference performance level.

Benchmarking turns the information on your utility bill into knowledge you can act on.

ENERGY STAR® Portfolio Manager®—the Industry Standard for Benchmarking Commercial Buildings

Portfolio Manager is an interactive resource management tool that enables you to benchmark the energy use of any type of building, all in a secure online environment. Nearly 25% of U.S. commercial building space is already actively benchmarking in Portfolio Manager, making it the industry-leading benchmarking tool. It also serves as the national benchmarking tool in Canada.



Use Portfolio Manager metrics to compare your building's energy use to a yearly baseline, national medians, or similar buildings in your portfolio.

Many buildings can also receive a 1–100 ENERGY STAR score

The ENERGY STAR score compares your building's energy performance to similar buildings nationwide, normalized for weather and operating characteristics. A score of 50 represents median performance. A higher score is better than average; lower is worse.



Get started </buildings/benchmark/get-started>: All you need are your bills and some basic information about your building.

Benchmark Today to Start Saving for Tomorrow

How does Portfolio Manager help you save? Once you've benchmarked your building in the tool, you'll have the information you need to:

- **Identify underperforming buildings to target for efficiency improvements.** As long as your building systems are running, it might seem wasteful to repair or replace working systems. But benchmarking can reveal if your building is using a lot more energy than similar buildings—and wasting energy and money in the process.

- **Identify best practices from efficient buildings.** Benchmark to find out which buildings in your portfolio are the most efficient, and then work with the teams at those buildings to replicate energy-saving practices at underperforming buildings.

- **Set investment priorities.** The built-in financial tool within Portfolio Manager allows you to compare cost savings across buildings in your portfolio. Use it to help decide how to allocate capital and maximize financial returns in energy efficiency.

- **Verify savings and prevent snapback.** As you continue to track energy use over time, you can verify that your efforts are actually resulting in reduced energy use and monitor usage to prevent snapback in savings.

- **Share and report performance.** You can use Portfolio Manager to generate ENERGY STAR performance documents for each building, share your performance data with others, and run custom reports to get insights on your performance.

- **Earn recognition**. If your building receives an ENERGY STAR score of 75 or higher, it may be eligible for ENERGY STAR certification </buildings/building-recognition/building-certification>.

- **Benchmark more than energy**. You can also measure and track water use <https://energystar.my.site.com/portfoliomanager/s/article/water-metrics-1748913086687>, waste and materials <https://energystar.my.site.com/portfoliomanager/s/topic/0tot00000008fkngay/getting-started-with-waste-benchmarking>, and emissions <https://energystar.my.site.com/portfoliomanager/s/article/what-are-ghg-emissions-1748914424571>.

- **Implement a comprehensive management program.** You've heard it before: What gets measured gets managed. Saving energy isn't a one-and-done checklist. Most importantly, you can use Portfolio Manager to implement every step of your energy management program, which is the proven path to sustained, deep energy savings.

Your actions today can help protect the environment for tomorrow. Ready to take the first step?

Get Started Benchmarking </buildings/benchmark/get-started>

Username

Password

Create account <https://portfoliomanager.energystar.gov/pm/signup>

Forgot password? <https://portfoliomanager.energystar.gov/pm/account/help/password>

Log In

An official website of the United States government Here's how you know

Resources for Healthcare Properties

U.S. hospitals and healthcare facilities consume approximately 9% of energy consumption <https://www.eia.gov/consumption/commercial/pba/health-care.php#:~:text=energy%20use%20in%20health%20care%20buildings&text=although%20health%20care%20buildings%20accounted,natural%20gas%20(207%20tbtu)> in U.S. commercial buildings while occupying 4% of total commercial floorspace. While a considerable amount of consumption is due to the energy intensity of medical care, as much as 30% could be saved at a typical hospital — with no sacrifice in comfort or safety — by following best practices and upgrading to efficient equipment.

Hundreds of healthcare organizations have used ENERGY STAR tools like Portfolio Manager to identify underperforming buildings, set goals, and demonstrate top performance by achieving ENERGY STAR certification.

Get Help Saving Energy

Hospitals and other health care spaces can receive a 1 – 100 ENERGY STAR score </buildings/benchmark/understand-metrics/how-score-calculated>, which is a comparative metric that rates your property's energy performance relative to similar properties nationwide.

Assess Building Efficiency and Validate Improvements

You can't manage what you don't measure, which is why benchmarking is the first step. Healthcare organizations can use ENERGY STAR Portfolio Manager </buildings/benchmark> to get a meaningful assessment of how efficiently their buildings are using energy. The tool is free, online, and secure, and allows users to benchmark hospitals, medical offices, clinics, ambulatory surgical centers, and more.

Resources for Benchmarking Healthcare Properties

- Checklist of data you'll need to benchmark <https://portfoliomanager.energystar.gov/pm/datacollectionworksheet>.
- Benchmarking Starter Kit </buildings/benchmark/get-started>.
- Data access map </buildings/benchmark/find_utilities_provide_data_benchmarking>: Check if your utility can provide whole-property energy data.
- ENERGY STAR help desk <https://energystar.my.site.com/portfoliomanager>.

Resources for Saving Energy in Healthcare

After benchmarking, you'll have a better understanding of which properties to target for cost-saving energy-efficiency improvements. Bring in an expert to conduct a building audit to identify opportunities or assemble your team and conduct an Energy Treasure Hunt.

- FAQ highlighting resources for improving hospital energy efficiency <https://energystar.my.site.com/portfoliomanager/s/article/do-you-have-any-resources-for-hospitals-starting-to-benchmark-1748913086896>.
- Saving energy in commercial buildings </buildings/save-energy-commercial-buildings>.
- Find an expert </buildings/save-energy-commercial-buildings/expert-help/find-spp> to help benchmark and improve efficiency.
- Energy Treasure Hunt </industrial_plants/treasure_hunt>: Treasure maps for hospitals, labs, and offices.

Get Recognition for Your Achievements

ENERGY STAR certification

Top-performing properties may be eligible to earn ENERGY STAR certification </buildings/building-recognition/building-certification>, which is awarded to the most energy-efficient buildings in the country. ENERGY STAR certified hospitals use 35% less energy and emit 35% less GHG emissions than the typical hospital, on average.

ENERGY STAR® NextGen™

EPA is introducing a new level of certification: ENERGY STAR® NextGen™. It will recognize energy-efficient, low-emissions buildings. Learn more about ENERGY STAR NextGen </buildings/building_recognition/energy_star_nextgen_certification_commercial_buildings>.

Join the Program

Joining ENERGY STAR is free! Partner organizations commit to improving energy efficiency in existing and new buildings, and use program resources to engage employees, tenants, and stakeholders in saving energy. They can also use the ENERGY STAR Partner mark to demonstrate to patients, staff, and others their commitment to saving energy efficiency.

- Join ENERGY STAR as a partner </partner-resources/join-energy-star>.

Organizations implementing comprehensive energy management programs and advocating for energy efficiency may be eligible for the prestigious ENERGY STAR Partner of the Year Award.

- ENERGY STAR Partner of the Year Award </industrial_plants/earn-recognition/energy-star-partner-year-award>.

Save Energy.

Learn More.

Stay Informed.

<https://facebook.com/energystar> <https://x.com/energystar> <https://www.linkedin.com/showcase/epa-energy-star/> <https://www.youtube.com/epaenergystar>

Proving the Business Case for Building Analytics

Publication Type
Report

Date Published
10/2020

Authors
Kramer, Hannah, Claire Curtin, Guanjing Lin, Eliot Crowe, Jessica Granderson

Abstract
HIGHLIGHTS Smart Energy Analytics Campaign supported 104 organizations, with 6,500 buildings covering over half a billion square feet of combined floor area§Campaign documented median annual energy savings of 3% (Energy Information Systems) and 9% (Fault Detection & Diagnostics)§Produced the largest dataset on EMIS costs and benefits;showed a 2-year simple paybackAs building monitoring becomes more common, facilities teams are faced with an overwhelming amount of data. These data do not typically lead to insightsor corrective actions unless they arestored, organized, analyzed,and prioritizedin automated ways. Buildings are full of energy savings potential that can be uncovered withthe right analysis.With analytic software applied to everyday building operations, owners are using data to their advantage and realizing costsavings through improvedenergy management.The 2016–2020 Smart Energy Analytics Campaign (smart-energy-analytics.org) was a public–privatesector partnership program to support commercially available Energy Management and Information Systems (EMIS)(Figure ES-1)and monitoring-based commissioning(MBCx)practicesfor commercial buildings. MBCxis an ongoing commissioning process with emphasis on monitoring and analyzing large amounts of data on a continuous basis. EMIS tools are used in the MBCx process to organize, present, visualize,and analyze the data.These tools have been available for decades, and their benefits have been documented through case studies and research on relatively small datasets. However, thepast decade has seen significant growth in adoption of EMIS, spurred by a far greater range of EMIS offerings, improved ease of use and integration, a maturing market for third-party MBCx providers, and a broader recognition of the benefits EMIScan bringto energy management practices. The Smart Energy Analytics Campaign was conceived as an opportunity to assess the costs, benefits, and common practices of EMIS when installedat scale across a wide array of building types and sizes.

Year of Publication
2020

URL
doi:10.20357/B7G022

Organization
Building & Industrial Energy Systems Division, Building Technologies Department, Whole Building Systems Department

Research Areas
EMIS

Related Files
PDF (13.09 MB)
PDF Infographic (163.04 KB)

An official website of the United States government Here's how you know

Energy Management Information System Benefits for Federal Agencies

Deploying an Energy Management Information System (EMIS) has the potential to produce substantial value and enhance existing energy management processes for federal agencies. Benefits include direct energy and cost savings as well as indirect benefits realized through data-driven operational improvements. Additionally, an EMIS provides an unmatched toolset for supporting compliance with federal laws associated with energy reduction, onsite renewable energy deployment, and metering.

Direct Value

EMIS delivers direct value to agencies by reducing energy and demand costs and preventing building performance from drifting over time. While many agencies already utilize various free software tools (such as the U.S. Environmental Protection Agency's ENERGY STAR® Portfolio Manager for benchmarking), commercially available EMIS tools offer agencies enhanced benefits that justify the investment required to achieve these savings. In 2020, Smart Energy Analytics Campaign participants who implemented automated fault detection and diagnostics achieved median annual savings of $0.27 per square foot, compared to deployment and recurring costs of $0.05 and $0.07 per square foot, respectively.

Energy, Demand, and Cost Savings

Measurement and Verification

Prevention of Performance Drift

Indirect Value

The data visualization and analytics capabilities of EMIS can add value for an agency's core mission and stakeholders. This added value can often outweigh the direct impact of EMIS. Indirect benefits include full facility, campus, and portfolio visibility; mitigating challenges with AMI and BAS; compliance with applicable federal laws and regulations; and supporting the Department of Energy's 50001 Ready program.

Full Facility, Campus, and Portfolio Visibility

Enhancing Usability of Advanced Metering Infrastructure and Building Automation Systems

Supporting Compliance with Federal Laws and Regulations

EMIS can serve as a critical asset in meeting federal mandates. Since the passage of the Energy Policy Act of 2005, a series of federal facility energy management laws and executive orders have been issued that affect federal agency portfolios regarding how federal energy usage is measured, managed, and reported. Federal agencies are required by these laws and executive orders to meet various Energy Independence and Security Act of 2007 and Energy Act of 2020 requirements for:

- Acquisitions and electronics stewardship
- Facility energy efficiency
- Fleet management
- Greenhouse gases
- High performance sustainable buildings
- Performance contracting
- Performance tracking and reporting
- Renewable energy and electricity
- Waste management
- Energy and water metering.

EMIS Capabilities

A comprehensive, agency-wide EMIS directly and indirectly supports a number of federal mandates and executive orders. The following table shows vertical mapping of federal mandates to EMIS capabilities.

Category	Centralize, Normalize, Visualize Data	Utility Bill Management	Interval Meter Analytics	Measurement & Verification (M&V)	Automated Fault Detection and Diagnostics (AFDD)	Supervisory Control	O&M Optimization
Energy Reduction	X	X	X	X	X	X	X
Data Center Management	X	X	X	X	X	X	X
Benchmarking of Federal Facilities	X	X	X	X			
Energy and Water Evaluations	X	X	X	X	X		X
Follow Up on Implemented Measures	X		X	X	X	X	X
Recommissioning and Retro-	X		X	X	X	X	X

Category	Centralize, Normalize, Visualize Data	Utility Bill Management	Interval Meter Analytics	Measurement & Verification (M&V)	Automated Fault Detection and Diagnostics (AFDD)	Supervisory Control	O&M Optimization
Commissioning							
Web Based Certification	X	X	X	X			
Metering Requirements	X	X	X	X			
Annual Energy Report	X	X	X	X			
Renewable Energy Report	X		X				
Waste Management	X	X					X
Water Management	X	X	X				X

An EMIS that integrates AMI also fulfills ongoing metering objectives of the Energy Act of 2020, which requires a comprehensive energy and water evaluation and recommissioning or retro-commissioning for approximately 25% of covered facilities once every four years, unless the facility is under ongoing commissioning, recommissioning, or retro-commissioning. An EMIS with automated fault detection and diagnostics would meet the requirements of the exemption, significantly reducing costs of compliance.

Supporting Energy Management Systems Standards

Federal Information Security Modernization Act Requirement

Key Resources

EMIS Cybersecurity Best Practices

Best Practices to Support EMIS Operation at Federal Facilities

Best Practices for Enhancing Performance Contracts with MBCx

Best Practices for EMIS Metadata Schemas

NREL's Energy Management Information System Powers its Intelligent Campus

50001 Ready Program

An official website of the United States government Here's how you know

Medical Imaging Equipment

For Partners </products/medical-imaging-equipment/partners>

Effective: November 3, 2025

Why ENERGY STAR?

Medical imaging equipment products are a broad category of products that encompass some of the largest plug loads in a hospital or out-patient facility. Medical imaging equipment including magnetic resonance imaging (MRI), mammography, x-ray, nuclear imaging, computed tomography (CT), and ultrasound imagery. These products are essential to many hospitals and clinics but have a large energy cost.

Many MRI devices are eligible for the ENEGY STAR label, including low-helium products, allowing customers to purchase efficient products for their needs. ENERGY STAR certified MRI products can reduce energy consumption and lower utility bills through power management, both during the office day as well as during overnight periods. Purchasing an ENERGY STAR certified MRI could lower annual electric bills by as much as $3,350 per unit, plus additional savings from ancillary systems.

Eligible Products

- Magnetic Resonance Imaging
- Low Helium Magnetic Resonance Imaging

Products Potentially Eligible in the Future

- Ultrasound Imaging/Sonography
- Computed Tomography
- Mammography
- Nuclear Imaging
- Permanent-Magnet Magnetic Resonance Imaging products

BUYING GUIDANCE

Save Energy.

Learn More.

Original Research Health Policy and Practice Mar 24 2020

The Energy Consumption of Radiology: Energy- and Cost-saving Opportunities for CT and MRI Operation

Authors: Tobias Heye, MD, Roland Knoerl, MBA, B Eng, Thomas Wehrle, Dipl-Ing, Daniel Mangold, Alessandro Cerminara, Michael Loser, PhD, Martin Plumeyer, Dipl-Ing, Markus Degen, PhD, Rahel Lüthy, MSc, Dominique Brodbeck, PhD, and Elmar Merkle, MD | AUTHORS INFO & AFFILIATIONS

Publication: Radiology Volume 295, Number 3 https://doi.org/10.1148/radiol.2020192084

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Abstract

Background

Awareness of energy efficiency has been rising in the industrial and residential sectors but only recently in the health care sector.

Purpose

To measure the energy consumption of modern CT and MRI scanners in a university hospital radiology department and to estimate energy- and cost-saving potential during clinical operation.

Materials and Methods

Three CT scanners, four MRI scanners, and cooling systems were equipped with kilowatt-hour energy measurement sensors (2-Hz sampling rate). Energy measurements, the scanners' log files, and the radiology information system from the entire year 2015 were analyzed and segmented into scan modes, as follows: net scan (actual imaging), active (room time), idle, and system-on and system-off states (no standby mode was available). Per-examination and peak energy consumption were calculated.

Results

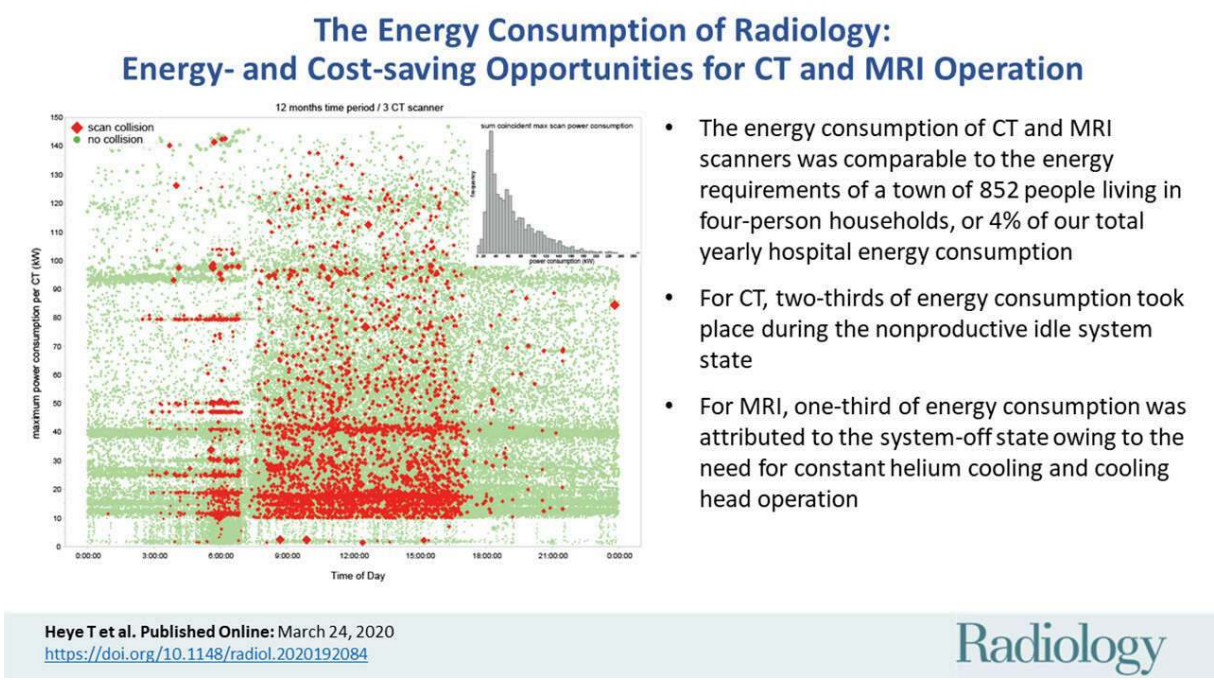
The aggregated energy consumption imaging 40 276 patients amounted to 614 825 kWh, dedicated cooling systems to 492 624 kWh, representing 44.5% of the combined consumption of 1 107 450 kWh (at a cost of U.S. $199 341). This is equivalent to the usage in a town of 852 people and constituted 4.0% of the total yearly energy consumption at the authors' hospital. Mean consumption per CT examination over 1 year was 1.2 kWh, with a mean energy cost (±standard deviation) of $0.22 ± 0.13. The total energy consumption of one CT scanner for 1 year was 26 226 kWh ($4721 in energy cost). The net consumption per CT examination over 1 year was 3580 kWh, which is comparable to the usage of a two-person household in Switzerland; however, idle state consumption was fourfold that of net consumption (14 289 kWh). Mean MRI consumption over 1 year was 19.9 kWh per examination, with a mean energy cost of $3.57 ± 0.96. The mean consumption for a year in the system-on state was 82 174 kWh per MRI examination and 134 037 kWh for total consumption, for an energy cost of $24 127.

Conclusion

CT and MRI energy consumption is substantial. Considerable energy- and cost-saving potential is present while increasing energy efficiency.

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Visual Abstract



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Figures

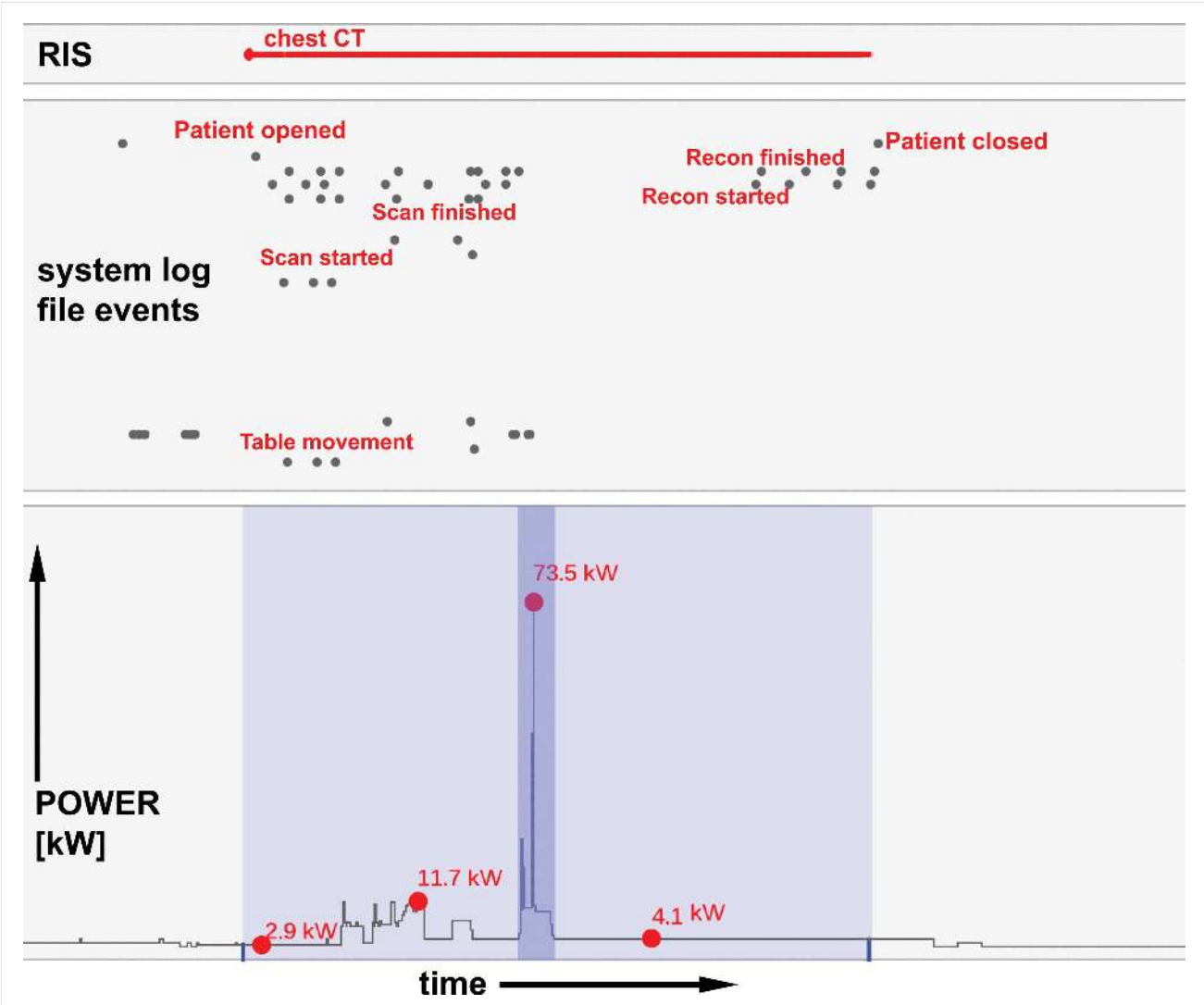


Figure 1: Diagram shows depiction and analysis of energy consumption by software application by means of synchronization of radiology information system (RIS), CT system log file events, and energy data streams. A chest CT examination is segmented (blue area) based on CT system log file events such as "patient open" and "patient closed" and identified by means of the RIS examination label matching the CT system log file–defined segment. Kilowatt-hour consumption is calculated by integrating the area under the energy signal within a defined segment. Duration of an event is given according to the length of the segmented area. Red dots on energy consumption signal exemplify consumption in kilowatts at the respective location on the graph. Darker blue area segmented in energy consumption signal demonstrates identification of instance of peak energy consumption, which is used to define net scan energy consumption and duration. Recon = reconstruction.

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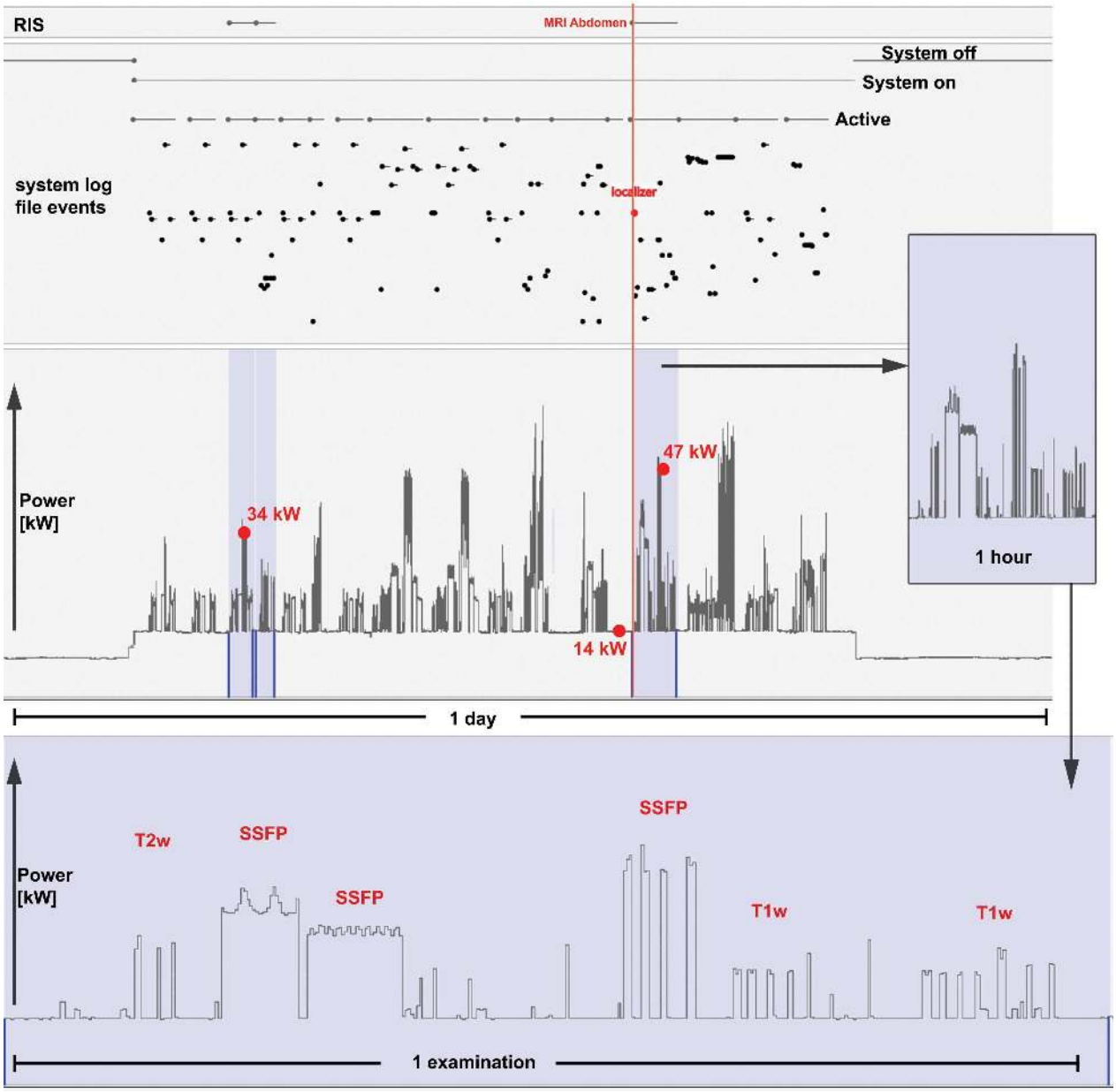


Figure 2: Diagram shows 1 day of synchronized radiology information system (RIS), MRI system log file events, and energy consumption data streams for a 1.5-T MRI scanner as depicted by the software application. The same principle as in Figure 1 applies, in which MRI system file events define segments (blue areas) on energy consumption signal and are labeled according to RIS examination information (eg, MRI of abdomen). On bottom image, an MRI examination is zoomed in to demonstrate distinct energy consumption footprint of various types of imaging sequences (eg, T2-weighted [T2w], steady state free precession [SSFP], and T1-weighted [T1w] sequences).

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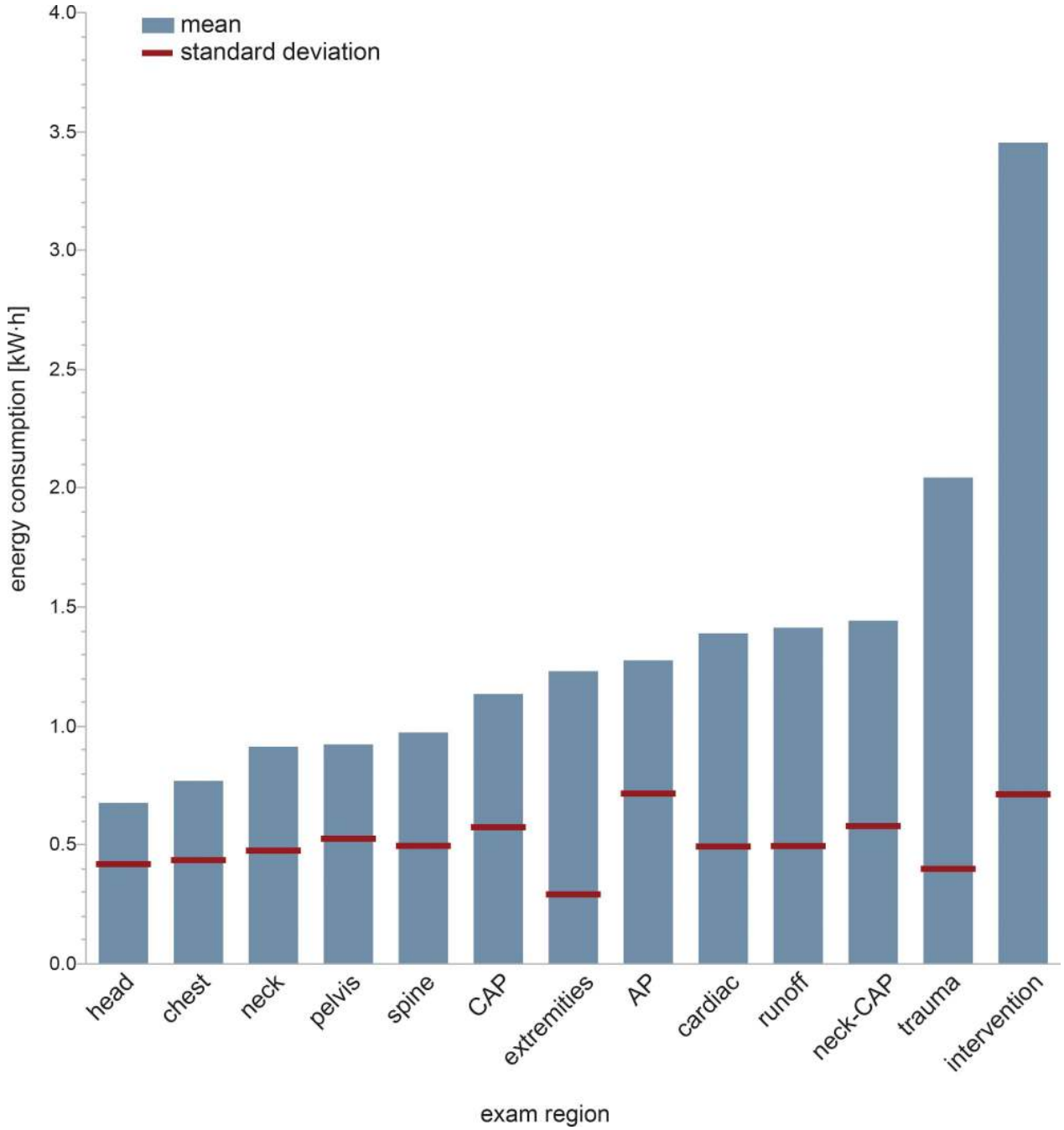
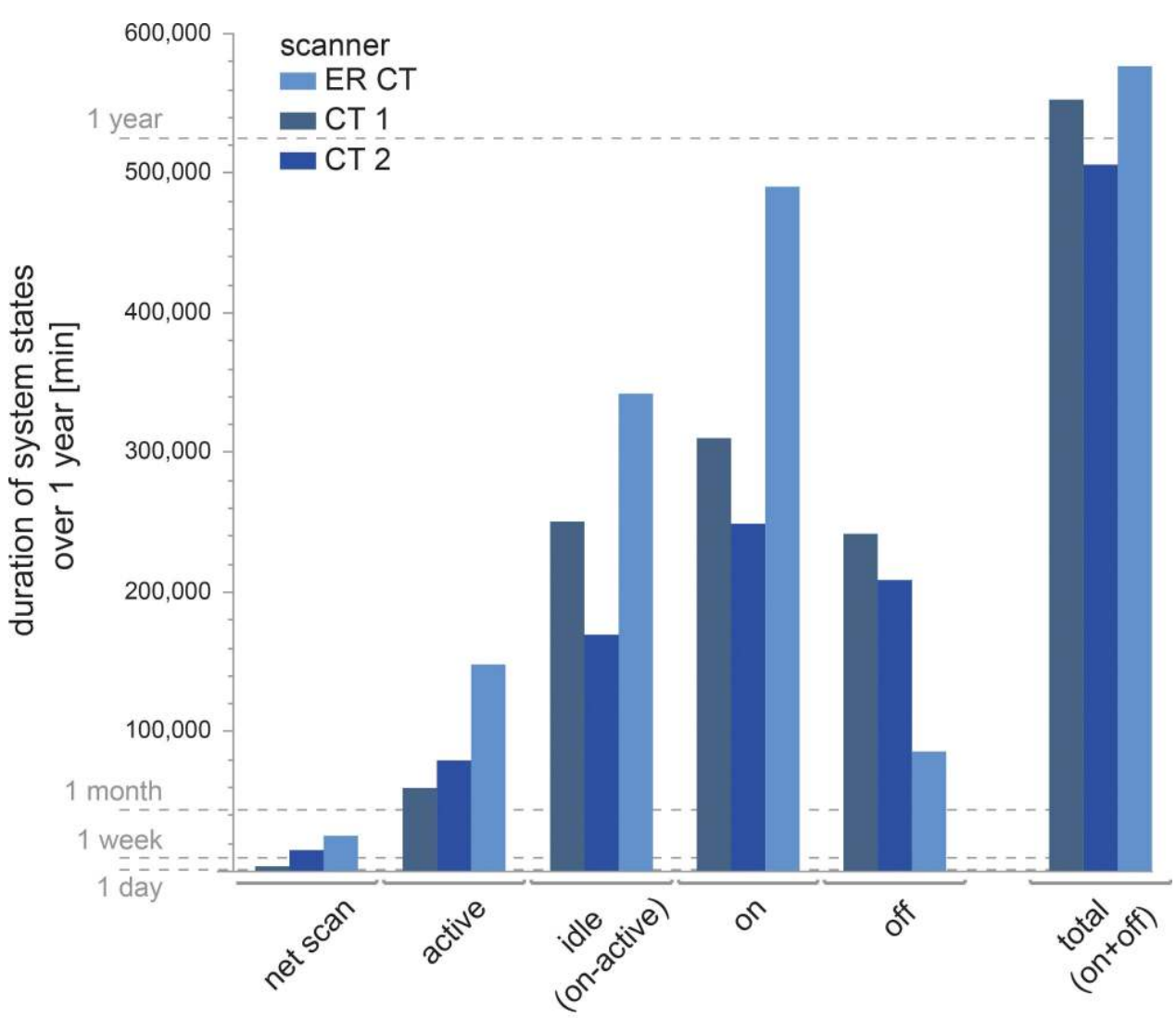


Figure 3: Bar graph shows mean energy consumption of CT examination and standard deviation in kilowatt-hours per body region averaged from 1 year of data. AP = abdomen and pelvis, CAP = chest, abdomen, and pelvis.

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scanner
ER CT
CT 1
CT 2
duration of system states over 1 year [min]
600,000
1 year
500,000
400,000
300,000
200,000
100,000
1 month
1 week
1 day
net scan
active
idle (on-active)
on
off
total (on+off)

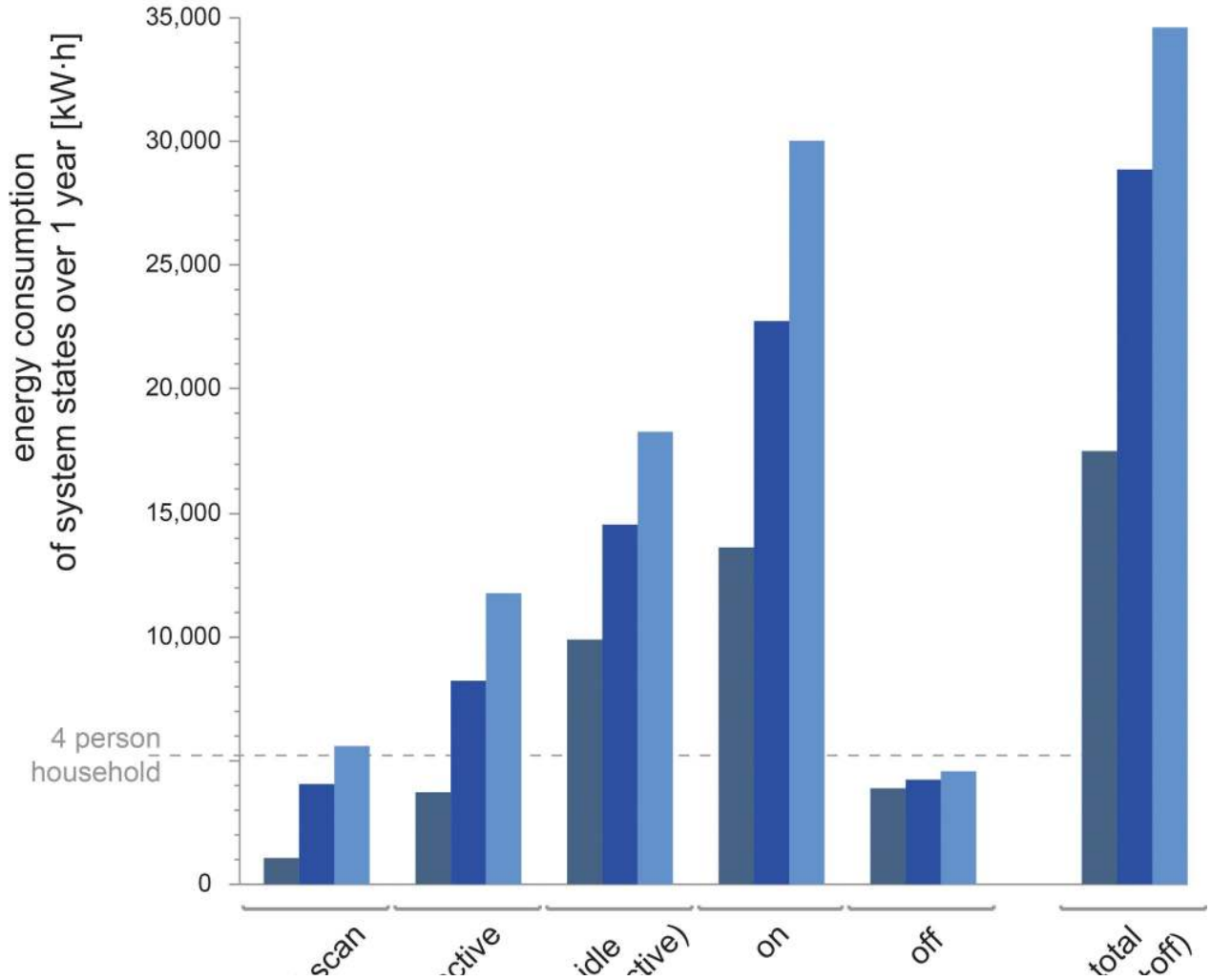

energy consumption of system states over 1 year [kW·h]
35,000
30,000
25,000
20,000
15,000
10,000
4 person household
0
on
off



Figure 4: Bar graphs show distribution of system states for each CT scanner for sum duration in minutes and for sum energy consumption in kilowatt-hours during 1 year of data. Owing to some inaccuracies in energy consumption curve segmentation, aggregated totals for each scanner do not result in duration of exactly 1 year. Net scan consumption for the emergency room (ER) CT scanner is comparable to that of four-person household; however, idle state consumption is fourfold that of net consumption and therefore contributes largely to total energy consumption.

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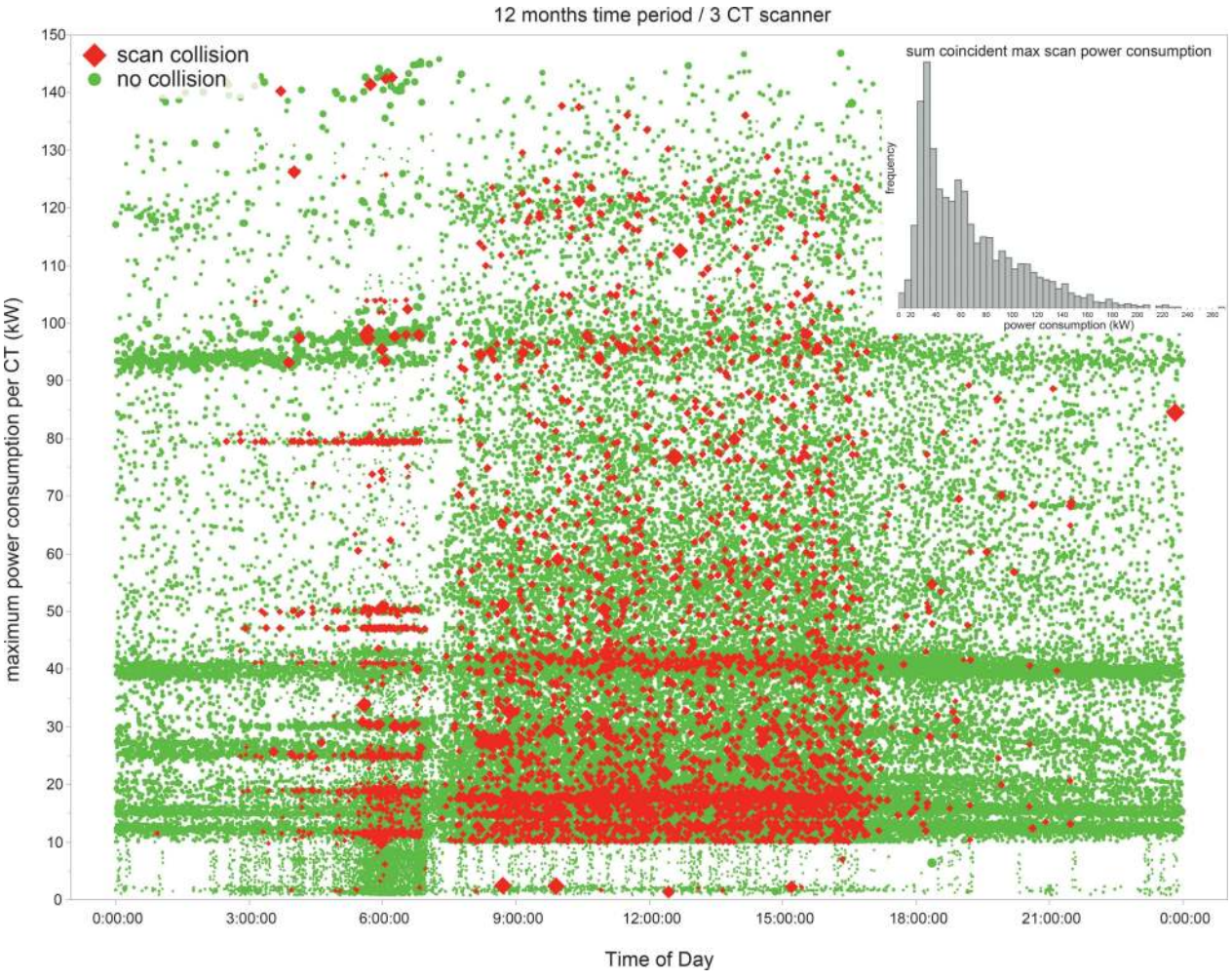


Figure 5: Graph shows frequency of simultaneous scanning events (◊) occurring between any two CT scanners in a three-scanner setting during 12 months and the resulting distribution of accumulated peak energy consumption (inset, top right). The y-axis demonstrates maximum energy consumption during a CT examination, and the x-axis shows time of day. Each point represents a CT scan event; the size of the symbol reflects scan duration.

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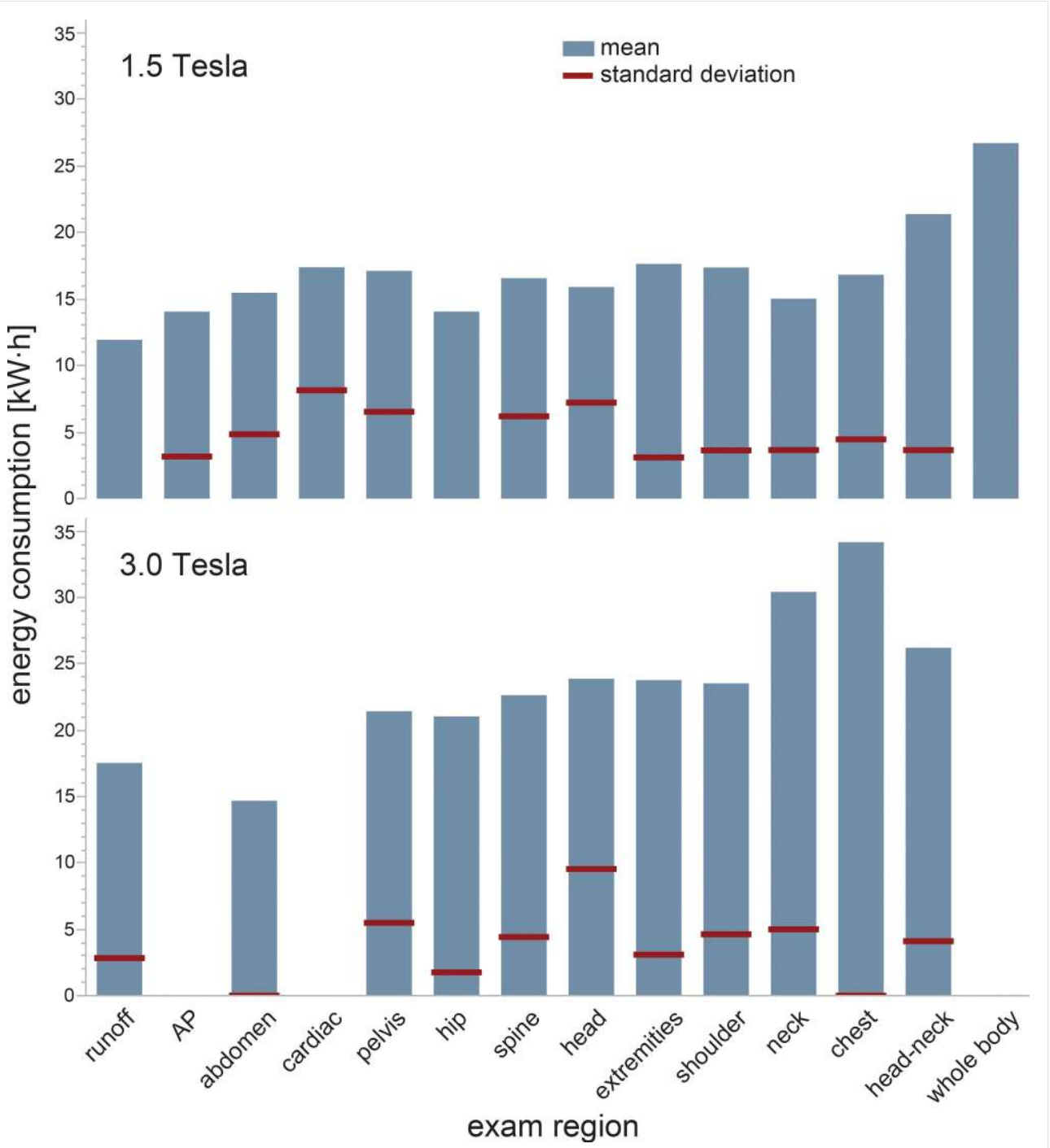


Figure 6: Bar graphs show mean energy consumption of MRI examinations and standard deviations in kilowatt-hours per body region stratified according to field strength and averaged from 1 year of data. AP = abdomen and pelvis.

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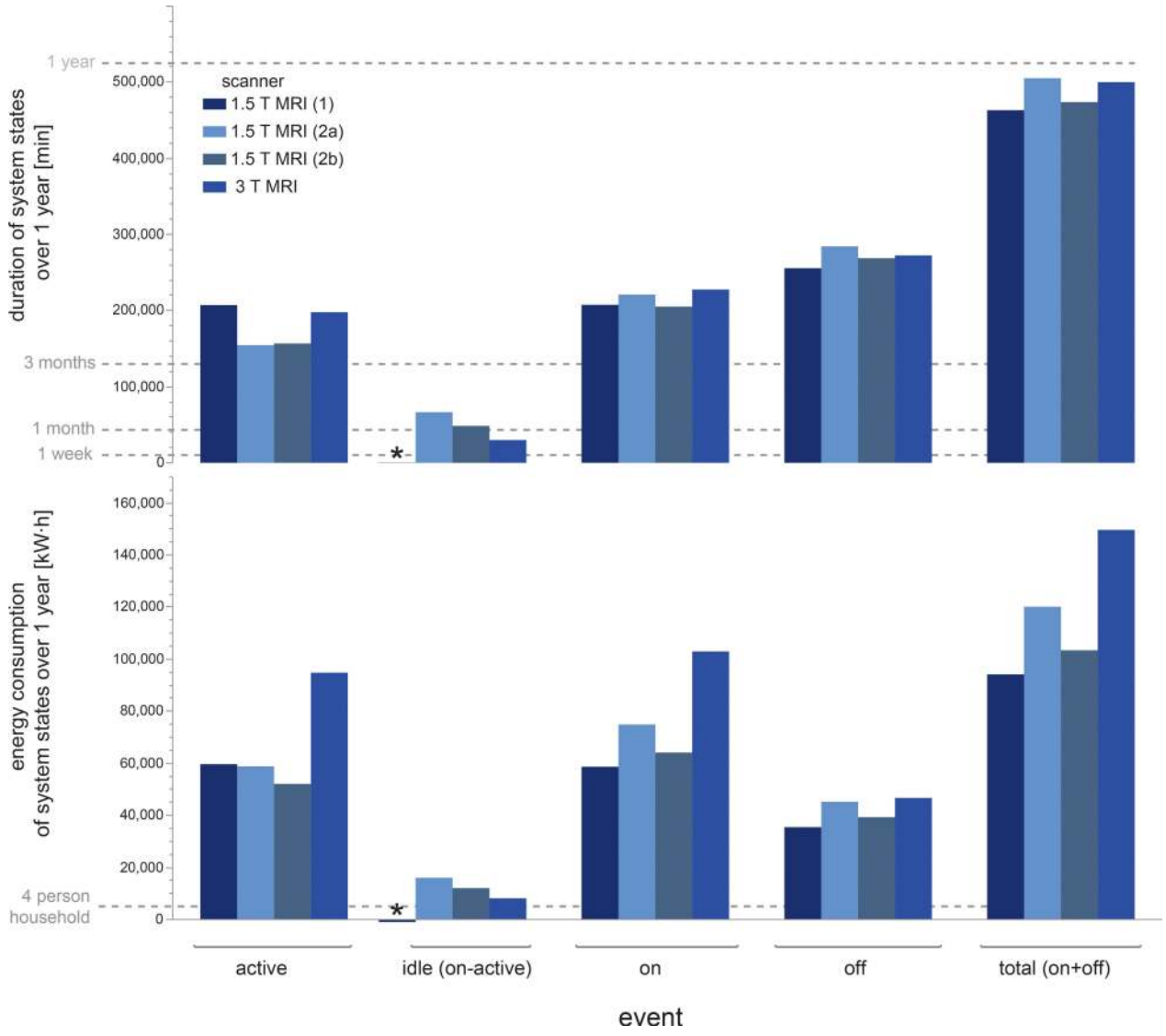


Figure 7: Bar graphs show distribution of system states for each MRI scanner for sum duration in minutes and for sum energy consumption in kilowatt-hours during 1 year of data. * = minimal idle time for one MRI scanner, which is possibly a false estimate resulting from summation errors and variance in energy signal segmentation. One MRI system (1.5-T MRI scanner 2a) was replaced during 2015 with a new MRI scanner (1.5-T MRI scanner 2b). Presented data are extrapolated for a 1-year time period.

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RECOMMENDED

TOPICS

Health Policy (and Practice)

Reducing the Energy Consumption of Magnetic Resonance Imaging and Computed Tomography Scanners: Integrating Ecodesign and Sustainable Operations

JOURNAL ARTICLE · 01 março 2025 · Journal of Computer Assisted Tomography

DOI: https://doi.org/10.1097/RCT.0000000000001700 · OSTI ID: 2483589

Hernandez, Andrew M. [1]; Chen, Anthony F. [1]; Ghatpande, Omkar [2]; Omary, Reed A. [3]; Woolen, Sean [4]; Jung, Youngkyoo [1]; Fananapazir, Ghaneh [1]

1. Univ. of California Davis Medical Center, Sacramento, CA (United States)
2. National Renewable Energy Laboratory (NREL), Golden, CO (United States)
3. Vanderbilt Univ., Nashville, TN (United States)
4. Univ. of California, San Francisco, CA (United States)

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This review aims to provide valuable insights into how energy consumption in magnetic resonance imaging (MRI) and computed tomography (CT) scanners can be effectively monitored, managed, and reduced, thereby contributing to more sustainable medical imaging practices. Demand for advanced imaging technologies such as MRI and CT scanners contin Expand ›

Research Organization:
National Renewable Energy Laboratory (NREL), Golden, CO (United States)

Sponsoring Organization:
USDOE Office of Energy Efficiency and Renewable Energy (EERE), Energy Efficiency Office. Building Technologies Office

Grant/Contract Number:
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Report Number(s):
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JOURNAL JULY 2024
Hernandez, Andrew M.; Alizadeh, Ramsey; Ghatpande, Omkar
Medical Physics, Vol. 51, Issue 10 https://doi.org/10.1002/mp.17327

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JOURNAL MAY 2024
Hanneman, Kate; McKee, Hayley; Nguyen, Elsie T.
Canadian Association of Radiologists Journal, Vol. 75, Issue 4
https://doi.org/10.1177/08465371241253314

Energy and Greenhouse Gas Emission Savings Associated with Implementation of an Abbreviated Cardiac MRI Protocol
JOURNAL APRIL 2024
Ibrahim, Fadi; Cadour, Farah; Campbell-Washburn, Adrienne E.
Radiology, Vol. 311, Issue 1 https://doi.org/10.1148/radiol.240588

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computed tomography

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Healthcare Decarbonization Through Medical Imaging Equipment (MIE) Efficiency Market Transformation

ENERGY STAR MIE Product Category: Better Buildings Healthcare Sector Partner Outreach & Sub Metering Studies

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BACKGROUND / INDUSTRY IMPACT

- Medical imaging equipment (MIE) energy use in healthcare buildings is significant (around 5%, but the quantity is uncertain) and is expected to grow as technology advances, more MIE arrives on the market, and more facilities install MIE.
- Better Buildings Alliance (BBA) healthcare partners want to purchase reliable and energy-efficient MIE.
- The medical efficacy of MIE is the primary procurement criteria and lifetime energy costs are not considered during buying.

- Environmental Protection Agency (EPA) ENERGY STAR® drafted a standardized test method in 2014 during "Ready-to-scan" and "Low-power" modes based on European Coordination Council of the Radiological, Electromedical, and Healthcare IT Industry (COCIR).
- Limited energy data was previously collected to support ENERGY STAR MIE standard development.
- Efforts to develop an MIE ENERGY STAR standard have been left incomplete, and there are currently no U.S. energy standards for MIE.

PROJECT OBJECTIVES

- Provide measured performance data and efficiency improvement opportunities to achieve healthcare decarbonization.
- Work with EPA and industry partners to transform the MIE market.

APPROACH

- Conduct MIE energy consumption background research.
- Present the findings to stakeholders (DOE, EPA, BBA partners, and American Society for Health Care Engineers).
- Identify opportunities to further advance MIE energy efficiency.

- Conduct submetering studies in healthcare settings to collect data for ENERGY STAR specification development.
- Data will be collected across multiple MRIs and healthcare facilities to capture energy use during:
  - Ready-to-scan mode
  - Low-power mode

FUTURE WORK

- Continue metering efforts to inform the ENERGY STAR specification development process
  - Develop metering plans for healthcare partners
  - Collect and analyze metering data

References
[1] J. J. Knott, L. Varangu, K. Waddington, T. Easty, and S. Shi, "Assessing Opportunities to Reduce Energy Consumption in the Health Care Sector," 2017.
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[4] European Coordination Committee of the Radiological Electromedical and Healthcare IT Industry, "COCIR Self-Regulatory Initiative for the Ecodesign of Medical Imaging Equipment Status Report 2018," 2018, [Online].
[5] A. Esmaeili, J. M. Twomey, M. R. Overcash, and S. A. Soltani, "MRI Transparency Document," 2017.
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[9] Green Public Procurement, "EU GPP Criteria for Electrical and Electronic Equipment used in the Health Care Sector (Health Care EEE)," 2014

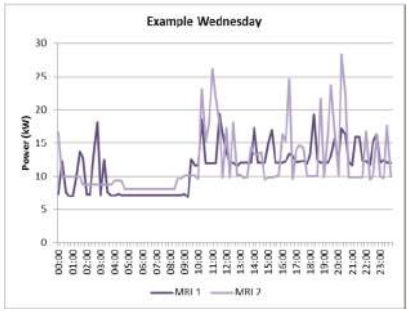
Products currently included in the EPA ENERGY STAR Preliminary Test Method

- Magnetic Resonance Imaging (MRI)
- General Radiography (X-ray)
- Computerized Tomography (CT) scanner
- Ultrasound imaging/sonography
- Nuclear imaging
- Mammography equipment

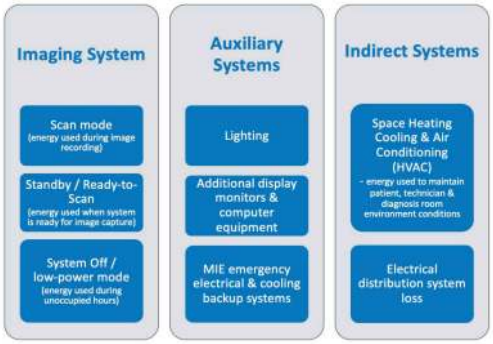
Overview of Common MIE

	CT Scanner	X-Ray	Ultrasound	Nuclear Imaging	MRI
Imaging Method	Ionizing radiation	Ionizing radiation	Sound waves	Radiotracers	Magnetic resonance
Technology	Uses rotating X-ray generator to reconstruct tomographic images of the body	Uses high energy electro-magnetic radiation to create 2-D image of body part	Uses high frequency sound waves to create image of internal body structure	Uses radioactive substances to visualize and measure physiological process changes	Uses strong magnetic fields gradients, and radio waves to generate images of body organs
Typical Energy Consuming Systems	•Gantry •X-ray generators •X-ray detector array •Computer/display •Patient table •Cooling system	•X-ray generators •X-ray detectors •Computer •Display •Anode cooling system	•Computer •Display •Ultrasound probe & sensor	•Gantry •Detector array •Computer, display •Patient table •Cooling system	•Magnet •Gradient & radio frequency (RF) coils •Computer/display •Helium cryocooler •Patient table

MIE Typical Energy Use[1]	MRI	X-Ray	CT Scanner
Average Annual Energy Consumption (kWh/unit/yr)	111,000	9,500	41,000
Average Annual Energy Operating Costs (USD/unit/yr)	20,000–30,000	100–400	3,000–6,000
Rated Power Range (kVA)	50–100	0.5–1.5	50–100



MRI 15-minute example weekday load profile[2].



MIE system categories and example subsystems.

RESEARCH OUTCOMES (to date)

- Studies show that 25%–40% of the total energy is consumed when the MRI machine is not operational during nights and weekends[2-8].
- The addition of an MRI to a healthcare facility results in a statistically significant increase in energy consumption.
- Energy savings up to 50% for MRI/CT and 80% for X-ray are possible through energy-efficient procurement[9].
- In some instances, energy savings can be achieved by transitioning MRIs from idle mode to off/low-power mode if the standby/idle functionality is not needed.

IMPACT

This work will promote healthcare decarbonization via building energy efficiency through:

1. Identifying opportunities for energy efficiency improvement of MIE.
2. Identifying opportunities for healthcare facilities to measure and reduce their MIE energy consumption through metering studies.
3. Providing MRI energy efficiency metrics for healthcare facility procurement teams and encouraging manufacturers to advance energy efficiency of their products through development of an ENERGY STAR specification.

ACKNOWLEDGMENTS

The authors would like to acknowledge the contributions to this work by the U.S. DOE and EPA ENERGY STAR. The authors would also like to thank UC San Francisco Health and University of Michigan Medicine for their contributions to the MRI metering work.

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Medical Imaging Equipment Energy Efficiency

Dr. Kim Trenbath, Omkar Ghatpande, and Amy LeBar, NREL

Updated March 15, 2023

Overview

- Background
- MRI technology & energy use
- Relevant work
- Summary & next steps

Acronyms

- CBECS – Commercial Buildings Energy Consumption Survey
- COCIR – European Coordination Council of the Radiological, Electromedical, and Healthcare IT Industry
- CT – Computerized Tomography
- GPP – Green Public Procurement
- MIE – Medical Imaging Equipment
- MRI – Magnetic Resonance Imaging
- PET – Positron Emission Tomography
- RF – Radio Frequency

Terminologies

- Low Power Mode - In this mode the system functions at its lowest energy consuming state that the user can select according to the user manual.
- Ready-to-scan/Standby Mode - This mode represents the state of the system between individual scans, where no scan has been prescribed.
- Scan Mode - The system is actively scanning the patient to generate images.
- OFF Mode - The system is shut down with AC mains off, according to the user manual and consumes NO energy.

Introduction

Background

Healthcare industry is interested in energy-efficient medical imaging equipment (MIE).

Purpose of presentation:

- Provide overview of existing work.
- Review existing literature on MIE energy use.
- Identify opportunities.

Overarching goal: Transform the MIE market by providing energy-efficient options.

Background

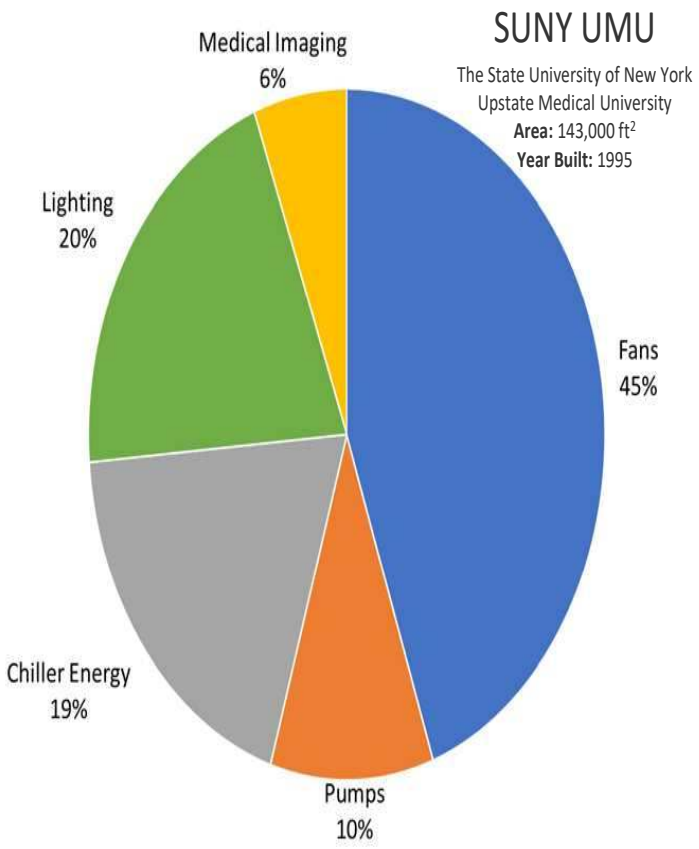
- MIE energy use in healthcare buildings is expected to grow as technology advances, more MIE arrives on the market, and more facilities install MIE.
- MIE energy use is estimated to be around 5% of site energy use, but the quantity is uncertain due to lack of data and studies.
- Healthcare organizations want to purchase reliable and energy-efficient MIE, but there is limited information regarding energy use and lifetime energy costs for MIE.
- There are currently no MIE energy or efficiency standards in the U.S.
- There is a need for commercially available energy-efficient MIE options.

MIE Technology & Energy Use

End-Use Breakdown in Healthcare—Site Electricity [Sheppy et al. 2014]

SUNY UMU

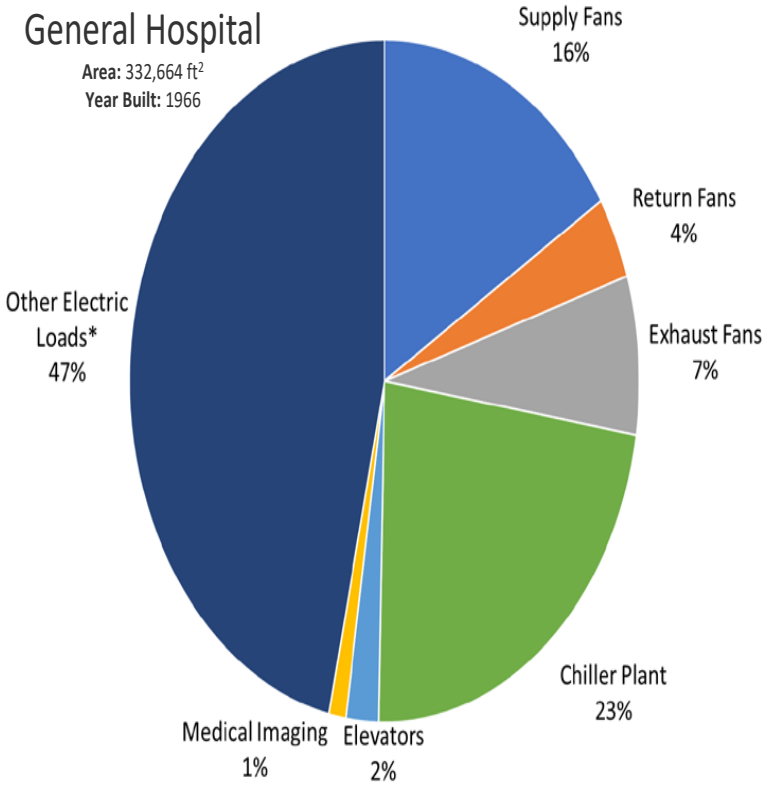
The State University of New York Upstate Medical University
Area: 143,000 ft^2
Year Built: 1995



This pie chart does not represent 100% of the site's electricity use. Monitoring at SUNY UMU excluded several items (cooling tower fans, six fractional-hp motors, preheat, humidification, steam piping losses, plug loads, and a 10-ton process cooling unit that serves the MRI device rooms), as installing meters for the loads would have required interrupting hospital operations. The site did not have whole-building meters.

Massachusetts General Hospital

Area: 332,664 ft^2
Year Built: 1966



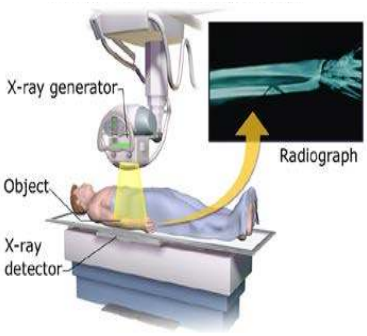
* The "other electric loads" category includes lighting systems and plug/process load equipment that were not directly monitored during the study, calculated using whole-building meter data.

Types of MIE

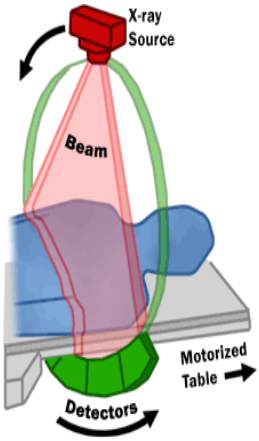
- Nuclear Magnetic Resonance Imaging (MRI)
- Nuclear imaging—Positron Emission Tomography (PET) scanner
- Computerized Tomography (CT) scanner
- Ultrasound imaging/sonography
- X-ray radiography



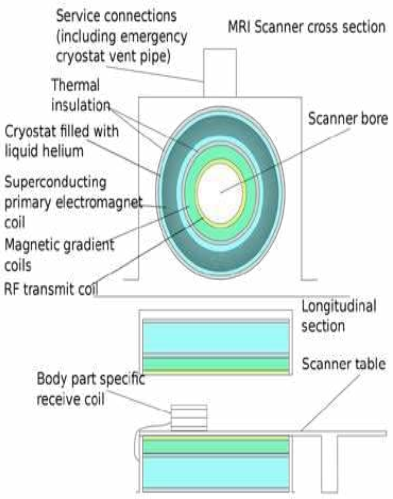
Ultrasound Scanner
[Wikipedia and Daniel R. 2006]



X-ray radiography
[Wikipedia and Mikael H. 2017]



CT imaging system
[Wikipedia and FDA 2019]



Schematic of cylindrical Superconducting MRI scanner
[Wikipedia and Chiswick C 2017]

MIE Overview

	CT Scanner	X-Ray	Ultrasound	PET Scan	MRI
Imaging Method	Ionizing radiation	Ionizing radiation	Sound waves	Radiotracers	Magnetic resonance
Technology	Uses rotating X-ray generator to reconstruct tomographic images of the body	Uses high energy electro-magnetic radiation to create 2-D image of body part	Uses high frequency sound waves to create image of internal body structure	Uses radioactive substances to visualize and measure physiological process changes	Uses strong magnetic fields gradients, and radio waves to generate images of the body organs
Sub-Types	• Fixed • Mobile	• Fixed • Mobile • Portable	• Basic • Doppler • 3-D/4-D Ultrasound	Fixed	• Closed • Open • Standing/sitting machine
Typical Energy Consuming Systems	• Gantry • X-ray generators • X-ray detector array • Computer/display • Patient table • Cooling system	• X-ray generators • X-ray detectors • Computer • Display • Anode cooling system	• Computer • Display • Ultrasound probe & sensor	• Gantry • PET detector array • Computer/display • Patient table • Cooling system	• Magnet • Gradient & radio frequency (RF) coils • Computer/display • Helium cryocooler (for superconductor magnets) • Patient table

MIE Energy Breakdown

Imaging Systems*

- Scan mode (energy used during image recording)
- Standby / Ready-to-Scan (energy used when system is ready for image capture)
- System Off / low-power mode (energy used during unoccupied hours)

Auxiliary Systems

- Lighting
- Additional display monitors & computer equipment
- MIE emergency electrical & cooling backup systems

Indirect Systems

- Space Heating Cooling & Air Conditioning (HVAC) - energy used to maintain patient, technician & diagnosis room environment conditions
- Electrical distribution system loss

* Imaging system examples: magnets, gradient and RF coils, cooling systems, primary display monitors, detector arrays

MIE Energy Consumption

- There are no energy conservation goals, standards, or regulations for MIE manufacturers in the United States [Knott et al. 2017].
- The medical efficacy of MIE is the primary procurement criterion; energy costs are not considered.
- Operational reliability is a paramount priority for healthcare facilities. MIE must operate accurately and reliably to address medical emergencies.
- Most MIE are on “standby” mode for a quick startup for emergency use.
- The majority of medical facilities do not record or actively analyze any energy consumption data for MIE.
- There are limited data sets available on MIE energy consumption in different operation modes.

MIE Typical Energy Use

MIE Typical Energy Use [Knott et al. 2017]	MRI	X-Ray	CT Scanner
Average Annual Energy Consumption (kWh/unit/yr)	111,000	9,500	41,000
Average Annual Energy Operating Costs (USD/unit/yr)	$20,000–$30,000	$100–$400	$3,000–$6,000
Rated Power Range	50–100 kVA	0.5–1.5 kVA	50–100 kVA

The remainder of this slide deck focuses on energy use of MRI because:

- MRIs consume more than 2x the energy of CT scanners and more than 10x compared to X-rays.
- A study investigating energy savings potential for U.S. commercial building appliances estimated the annual energy consumption of MRI machines increased by 66% from 0.009 to 0.015 quads/yr from 2008 to 2015 [Goetzler et al. 2016].
- The European Union Green Public Procurement criteria for healthcare sector electrical and electronic equipment estimates energy saving opportunities of 50% for MRI/CT and 80% for X-ray by including energy efficiency criteria in tender during procurement. This would result in MRI savings up to €6,700 ($7,000) per unit annually [Knott et al. 2017, GPP 2014].
- U.S. Environmental Protection Agency analysis of ENERGY STAR® Portfolio Manager data found that the addition of an MRI causes a significant increase in building energy consumption.

Energy Consumption of MRI Machines

- Studies* show that
  - Approx. 25%–40% of the total energy is consumed when the machine is not operational during nights and weekends.
  - Less than half of the total energy is consumed during scanning.
- Majority of energy is consumed by magnets, followed by cryocoolers for superconducting magnet-based MRIs, which operate constantly. More research is required to determine the energy breakdown for different types of MRIs.

*Sheppy 2014, Heye et al. 2020, COCIR 2018, Esmaeili et al. 2018, 2017, COCIR 2015, Tran et al. 2019.

MRI Magnet Types

Tesla (T) is the unit of magnetic flux density. Theoretically, higher Tesla can offer higher sensitivity, accuracy, and lower scan times, but there is no definitive validation.

There are three different magnet types used in MRI scanners:

- **Permanent:** These magnets retain magnetic field without any inducing field or current. Energy is not consumed to maintain the magnetic field but use in MRI machines is limited due to very weak magnetic field strength required for diagnostic imaging.
- **Resistive:** Resistive magnets are electromagnets controlled by electrical current flow. These machines are generally left on during the day but can be turned off during extended unoccupied hours because they typically take only 30-60 minutes for their magnetic fields to stabilize before use [MRI Questions, 2021]. Majority of the system energy use is to maintain magnetism. They are not economical for higher-Tesla machines.
- **Superconducting:** Superconducting magnet-based MRIs rely on helium cryogen to maintain superconducting temperatures of 9.4°K (-263.8°C or -442.8 °F). These ultra-low temperatures drop the niobium-titanium (Nb-Ti) conductor resistance to almost zero to produce the required magnetic field. It could be multi-day process to get the magnets in superconducting state, so the cryogenic coolers are always operational for these machines.

U.S. MRI Landscape

List of major MRI manufacturers in the U.S.

- Canon Medical Systems
- GE Healthcare
- Philips Healthcare
- Siemens Healthineers

MRI machine market share based on magnet strength [Rinck, 2018]

- 0–1.5 T: <25%
- 1.5 T: 60%–75%
- 3.0 T: <10 %

Total Number of MRI Units in the USA [OECD, 2022]

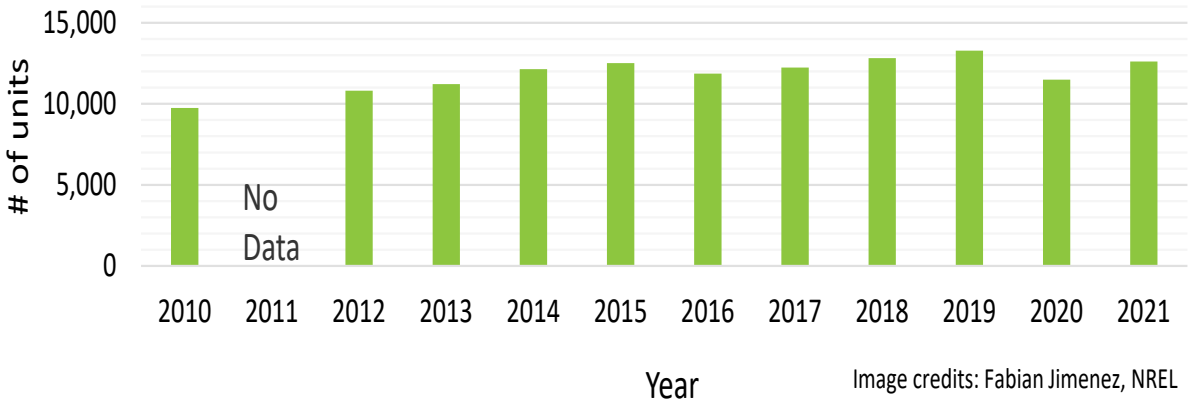
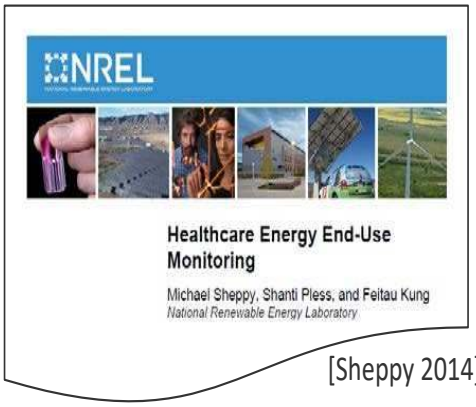


Image credits: Fabian Jimenez, NREL

Example Load Profile: MRI



[Sheppy 2014]

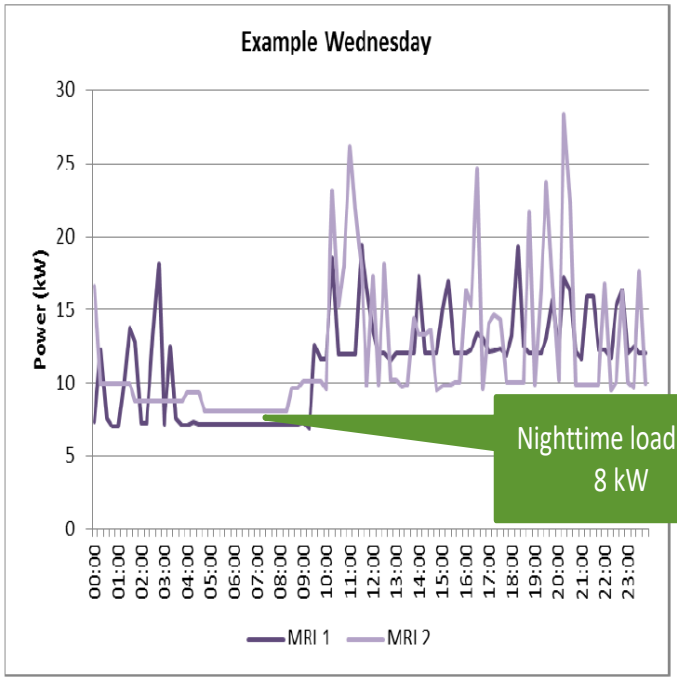


Figure 4-8 MRI 15-minute load profiles for an example weekday (Wednesday)

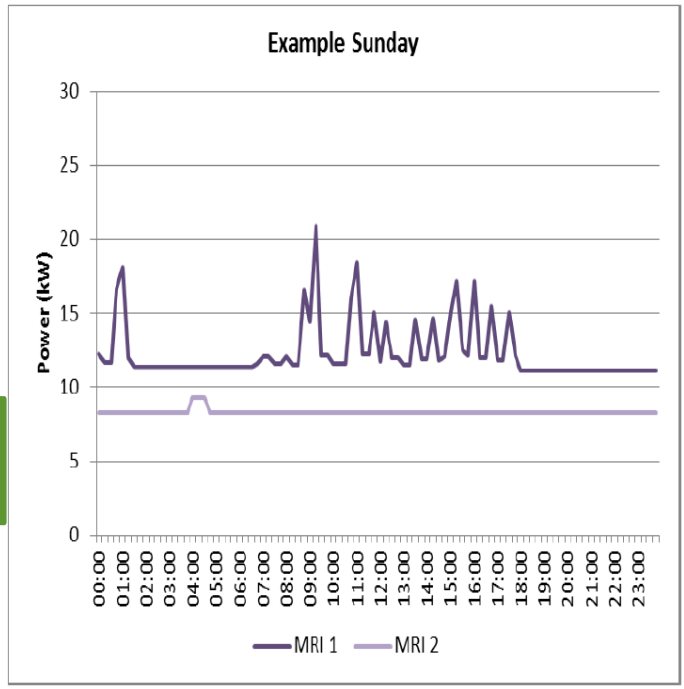
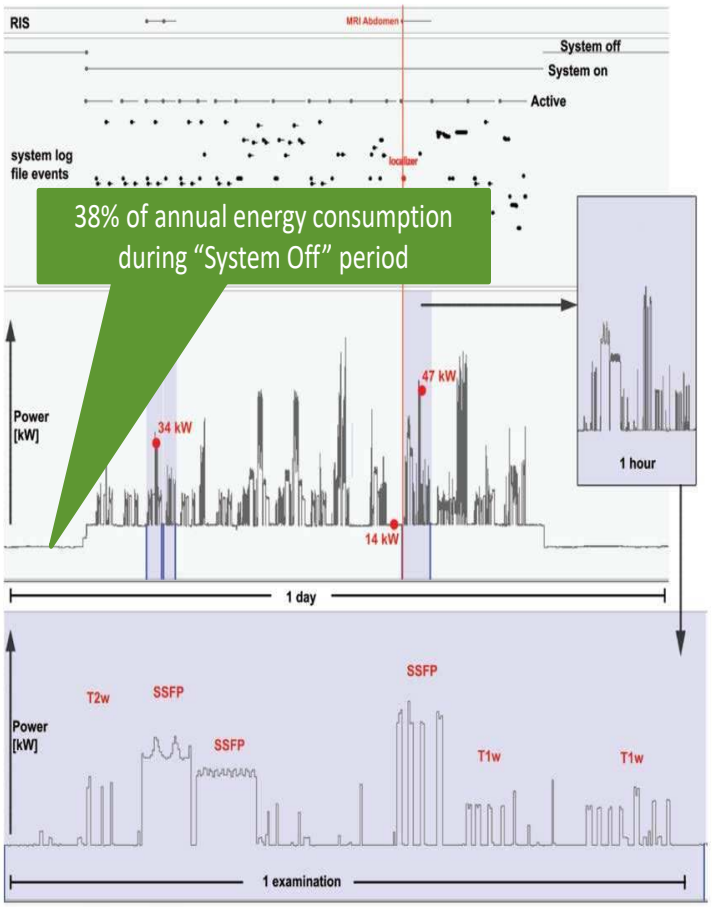


Figure 4-7 MRI 15-minute load profiles for an example weekend day (Sunday)

Example Load Profile: 1.5T MRI Scanner




Radiology

ORIGINAL RESEARCH · HEALTH POLICY AND PRACTIC

The Energy Consumption of Radiology: Energy- and Cost-saving Opportunities for CT and MRI Operation

Tobias Heye, MD • Roland Knoerl, MBA, B Eng • Thomas Wehrle, Dipl-Ing • Daniel Mangold • Alessandro Cerminara • Michael Loser, PhD • Martin Plumeyer, Dipl-Ing • Markus Degen, PhD • Rahel Lüthy, MSc • Dominique Brodbeck, PhD • Elmar Merkle, MD

From the Department of Radiology, University Hospital Basel, Petersgraben 4, Basel 4031, Switzerland (T.H., E.M.); Siemens Healthineers, Forchheim, Germany (R.K., M.L., M.P.); Building Management, University Hospital Basel, Basel, Switzerland (T.W., D.M., A.C.); and School of Life Sciences, University of Applied Sciences and Arts Northwestern (FHNW), Muttenz, Switzerland (M.D., R.L., D.B.). Received September 16, 2019; revision requested November 4; revision received January 20, 2020; accepted January 23. **Address correspondence to** T.H. (e-mail: *tobias.heye@usb.ch*).

Supported by Siemens Healthineers, Forchheim, Germany (individual project agreement #5).

Conflicts of interest are listed at the end of this article.

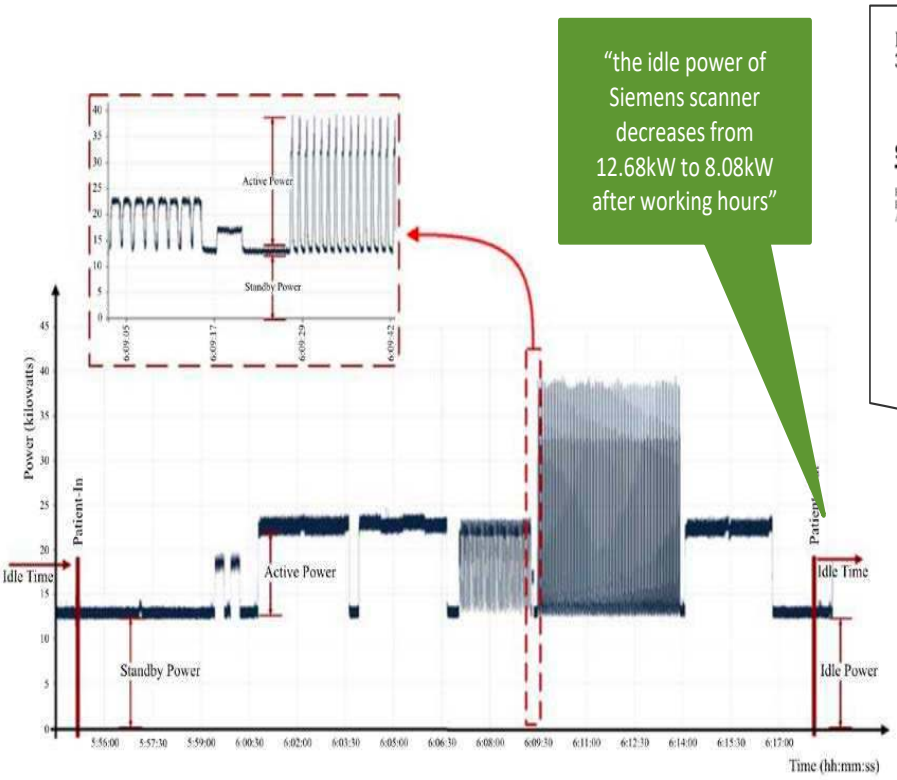
Radiology 2020; 295:593–605 • https://doi.org/10.1148/radiol.2020192084 • Content

[Heye et al. 2020]

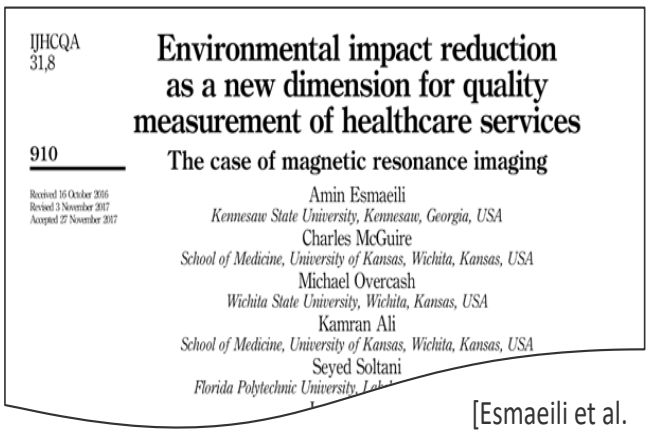
"Considerable energy- and cost-saving potential is present during nonproductive idle and system-off modes, and this realization could decrease total cost of ownership while increasing energy efficiency."

[Image Credits: Heye et al. 2020]

Example Load Profile: 1.5T MRI Scanner



[Image Credits: Esmaeili et al. 2018, 2017]



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910

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Environmental impact reduction as a new dimension for quality measurement of healthcare services

The case of magnetic resonance imaging

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School of Medicine, University of Kansas, Wichita, Kansas, USA
Michael Overcash
Wichita State University, Wichita, Kansas, USA
Kamran Ali
School of Medicine, University of Kansas, Wichita, Kansas, USA
Seyed Soltani
Florida Polytechnic University, Lak

[Esmaeili et al. 2018, 2017]

"The in-hospital energy use (process energy) for performing MRI is 29 kWh per patient for the MRI machine, ancillary devices and light fixtures."

Potential Savings by Using "Off" Mode During Nights and Weekends

MRI

MODE	Average Power Consumption (kW)	Average distribution of daily energy consumption %
Off	9.3	34
Ready to scan	14.6	34
Scan	22.3	32

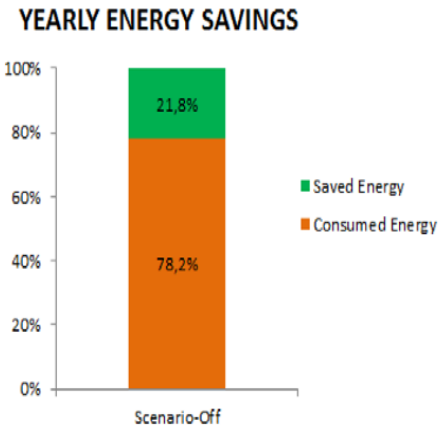
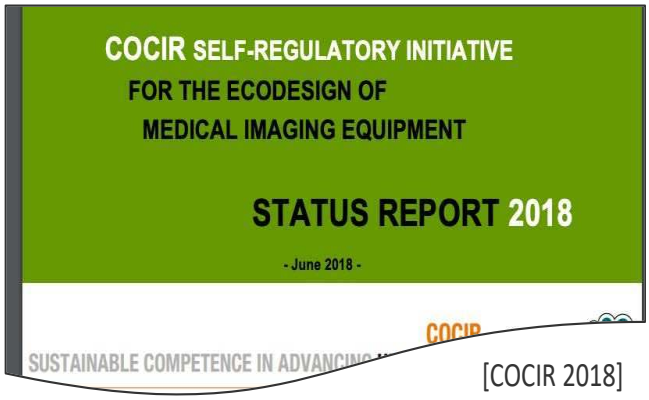


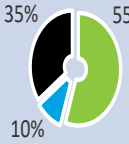
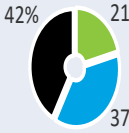
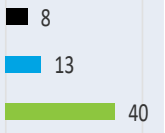
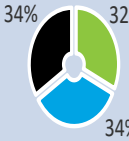
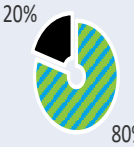
Figure 3: *MRI energy savings by using Off-mode* [Image Credits: COCIR, 2018]



[COCIR 2018]

"Considering that during the weekend the scanner can be in Off-mode or Ready-to-scan mode for 24 hours, the use of the Off-mode allows for saving up to 21.8% of the annual energy consumption which on the average corresponds to 29.2 MWh/y."

Energy Consumption of MRI Machines

Reference Name	Year	Region	Energy Use in Each Mode	Avg. Power (kW) Reading in Each Mode	Test Period
The Energy Consumption of Radiology: Energy- and Cost-saving Opportunities for CT and MRI Operation [Heye et al. 2020]	2020	Switzerland (Europe)			12 months
MRI Transparency Document [Esmaeili et al. 2018, 2017]	2012	USA			4 days
COCIR MRI Guidelines for Users on Saving Energy [COCIR 2015]	2015	Europe			Daily avg.
Energy usage of a newly operational GE Healthcare Signa Premier 3T MRI* [Tran et al. 2019]	2019	USA			Daily avg.

Active Mode Standby/ Idle Mode System OFF/ Low Power Mode

* This study consolidates active mode and standby (ready-to-scan) mode for energy use analysis

Energy Consumption of MRI Machines

Subsystem	System Type	Typical Operating Modes		
		Scan Mode	Ready-to-Scan/Idle	Low-Power/Off
Magnet—permanent magnet (PM)	Primary	●	●	●
PM cooling system	Primary	●	●	●
Magnet—superconducting magnet	Primary	●	●	●
Helium cryocooler for superconducting magnet	Primary	●	●	●
RF coils/gradient coils/shim coils/receiver	Primary	●	●	●
Patient table	Primary	●	●	●
MRI room/patient's room/technician's room lighting	Auxiliary	●	●	●
HVAC	Indirect	●	●	●
Electrical distribution system loss	Indirect	●	●	●
Primary display, computer and data storage	Primary	●	●	●
Additional display monitors	Auxiliary	●	●	●

MRI subsystems may still be powered even though the machine is in low-power or off mode. This table shows the power level (normal, reduced, off) of the different MRI subsystems during each operating mode. Note that when the MRI is in low-power or off mode, some subsystems, including the magnet, helium cryocooler, and HVAC, are still at normal power.

● Normal subsystem power ● Reduced subsystem power ● Subsystem power off

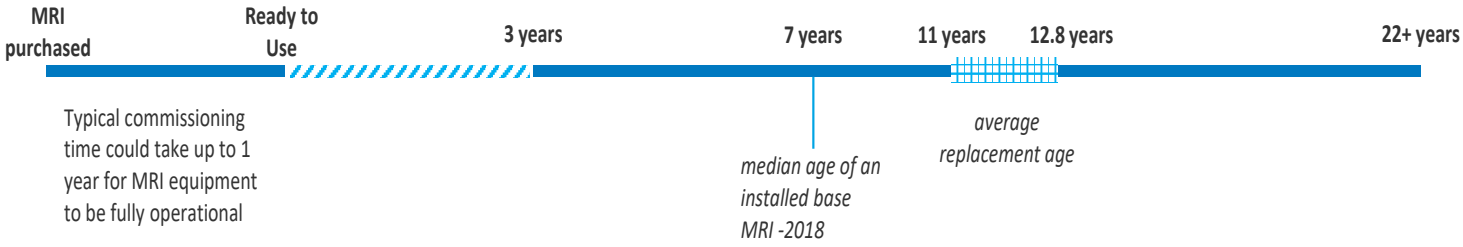
MRI Startup/Shutdown Time

Data Source	Location / Year	MRI Model	Magnet Type	Startup Time	Shutdown Time
UCLA Brain Mapping Center [UCLA 2022]	U.S. / 2021	Siemens Prisma 3T MRI Scanner	Superconducting	15 minutes	20 minutes
Ghent Institute for functional and Metabolic Imaging [Bogaert 2019]	Belgium / 2019	Siemens Prisma 3T MRI Scanner	Superconducting	10 minutes	No information*
How To Turn On GE MRI Scanner [GE MRI Power On Procedure, MRIPETCTSOURCE 2022, MRIPETCTSOURCE 2021]	U.S. / 2022	GE Signa series MRI Scanner	Superconducting	12-20 minutes	~5 minutes

Startup: From "low-power/off" to "ready-to-scan/idle" mode
Shutdown: From "ready-to-scan/idle" to "low-power/off" mode

* This study did not document the MRI shutdown time.

MRI Equipment Lifespan



2018 MRI Buyer's Guide (GE Healthcare) – "*50% of installed MRI base will be replaced within 11 years of their installation. The average replacement cycle is 11.5 years, ranging from 3-22+ years. The general feeling is that one out of every five MRI systems is older than 10 years.*" ["2018 MRI Buyer's Guide"]

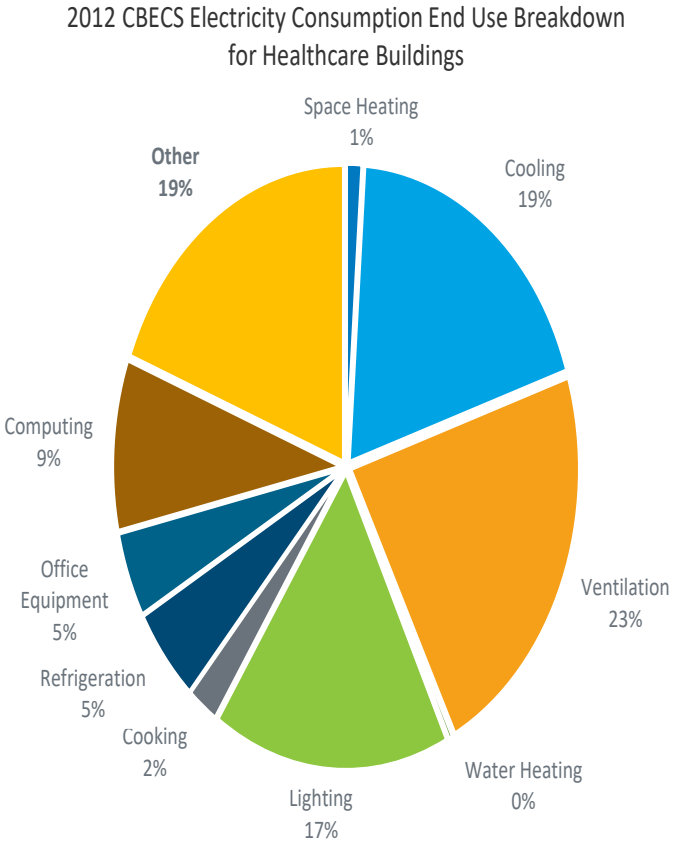
The guide to upgrading an MRI scanner (GE Healthcare) – "*2018 median age of an installed base MRI system was 7 years, average replacement cycle of MRI scanner was 12.8 years.*" ["The guide to upgrading an MRI scanner"]

GE Healthcare article (2019) - *The average lifespan of an MRI scanner is about 11 years, though some are used for over 20 years*. ["Opportunities The First MR Scanner Brings To Your Private Hospital"]

Relevant Work

Healthcare Microdata in CBECS

- EIA CBECS 2012 data consolidates medical equipment energy consumption in “Other” [CBECS, 2012]
- CBECS 2012 surveyed the quantity of X-ray units
- CBECS 2018 (released Nov. 2021) includes latest MIE statistics
  - 2018 questionnaire surveys for MIE (MRI, CT scan, and ultrasound) quantity in addition to X-ray for healthcare facilities.



Relevant Work Abroad

COCIR Ecodesign Self-Regulatory Initiative

- Non-profit trade organization representing MIE and healthcare IT industry in EU.
- Participating companies adopt an internal company target and commit to not increase the average energy consumption in "off" and "ready-to-scan" modes compared to the 2011 baseline, saving an estimated 12% daily energy by 2017 ["Ecodesign Initiative"]
- 5 participating MRI companies:
  - GE Healthcare, Hitachi Medical System Europe, Philips Healthcare, Siemens Healthcare, and Canon Medical Systems

The Canadian Coalition for Green Health Care [Knott et al. 2017]

- Representatives from some of Canada's largest healthcare associations and environmental groups.
- Involved in local and national initiatives.
- Provides virtual platform for sharing ideas and resources for stakeholders to work together.
- Affiliation with Canadian Healthcare Engineering Society and Ontario Hospital Association.

Siemens Carbon-Neutral Radiology Imaging Service

[Berthold 2021]

- Through an agreement, Siemens Healthineers and University of California, San Francisco (UCSF) formed research and innovation-driven collaboration.
- Carbon-neutral radiology imaging service at UCSF
  - Monitor power consumption of radiology equipment at UCSF.
  - Leverage new Siemens scanner technology, the MAGNETOM Free.Max: a small (0.55 Tesla) MRI scanner.
  - Explore ways to reduce standby energy consumption of MRIs.
  - Explore the potential for turn-key eco-friendly scanners.
  - UCSF will have a carbon-neutral imaging fleet by supplementing with renewable energy certificates (RECs).

* Agreement will also explore Artificial Intelligence (AI) in radiology, clinical data and image integration, and quantitative imaging.

Summary & Next Steps

Summary

- MIE electricity consumption could account for up to 5% or more of a hospital's site energy use [Sheppy 2014]. More work is needed to determine a better estimate.
- The addition of an MRI to a healthcare facility results in a statistically significant increase in energy consumption.
- MRIs can consume 9 kW in system off/low-power mode, and MRIs are often left in standby/idle mode, consuming around 14 kW [COCIR 2018].
- There are opportunities to reduce energy consumption of MIE, including MRIs. Implementing low-power modes is one strategy and can save 21.8% energy [COCIR 2018].

Opportunities for Energy and Cost Savings

- Some subsystems need to run constantly, while others do not (non-critical). There is the opportunity to use occupancy measurements to control MRI subsystem loads that are non-critical. When unoccupied, turn off non-critical loads such as screens and lights, and reduce HVAC load.
- In some instances, energy savings can be achieved by transitioning MRIs that are in standby/idle mode to system off/low-power mode as long as the standby/idle functionality is not needed. Healthcare providers who operate MIE would like transitions into and out of low power to be seamless, easy, and incorporated into use cases and documentation.
- For cost clarity, healthcare companies can define a framework for total ownership cost or life cycle cost, which includes first costs, remodel construction costs, direct energy cost, auxiliary cost, and indirect cost.

Opportunities for Indirect Energy Savings

- Energy consumption of auxiliary equipment, such as display monitors, can be reduced by using sleep settings.
- Lighting in the imaging, technician's, and patient's rooms can be dimmed or turned off during unoccupied hours through scheduling or occupancy sensors.
- During unoccupied hours, the room does not need to be conditioned for human comfort but might still need to be conditioned (temperature & relative humidity) for the MIE.

Future Research Work Opportunities

- Documenting detailed MRI load profiles
- Component-level MIE efficiency analysis and improvement
- Load flexibility opportunities using MIE and energy storage
- Stress testing MRI machines for switching to standby mode more frequently
  - Existing resources for stress testing are focused on mechanical stress testing of the MRI equipment.

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Thank You!

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U.S. Energy Information Administration

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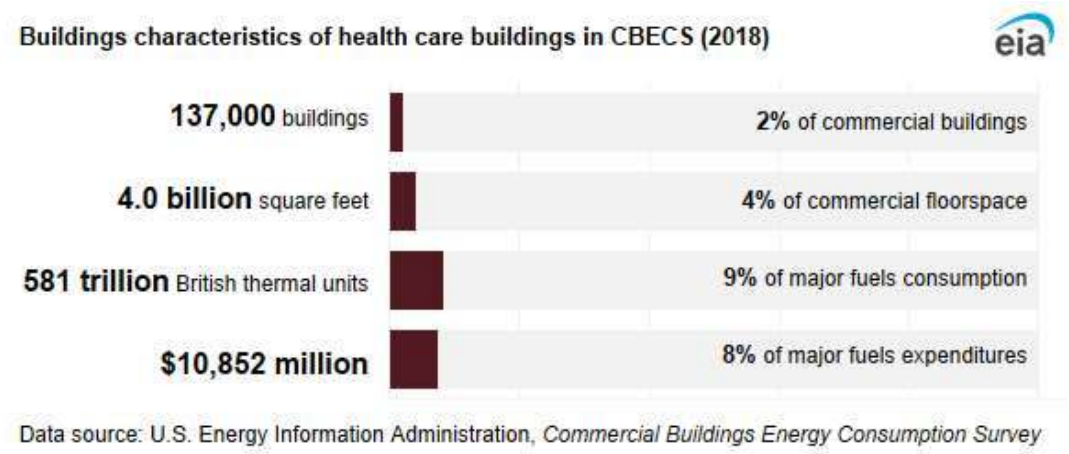
Commercial Buildings Energy Consumption Survey (CBECS)

Back to *Building Type Reports*



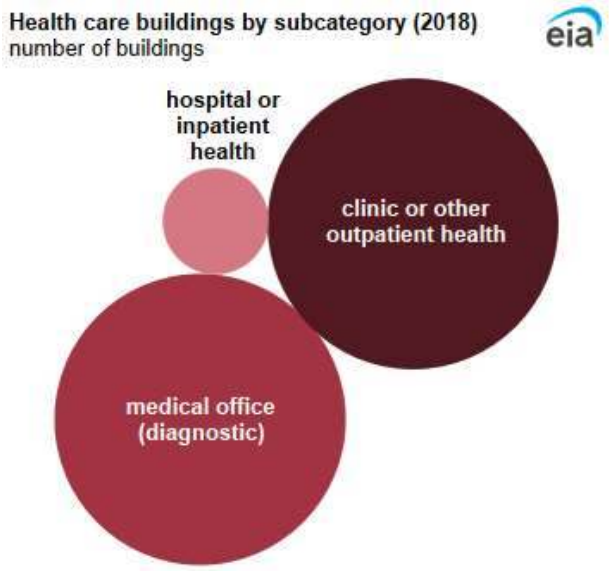
2018 CBECS: Principal Building Activities
Health Care

Health care buildings are used as diagnostic and treatment facilities for both inpatient and outpatient care. Medical offices are included here if they use any type of diagnostic medical equipment (if they do not, they are categorized as an office building). Skilled nursing or other residential care buildings are categorized as lodging.



We publish three subcategories of health care buildings:

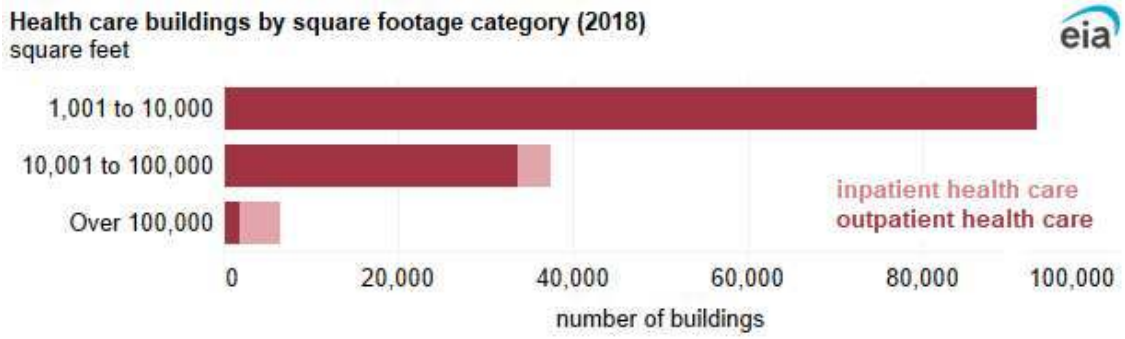
- Inpatient health, which includes inpatient hospitals and rehabilitation centers
- Medical office (diagnostic)
- Clinic or other outpatient care, which includes outpatient rehabilitation and veterinary offices



Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*

Medical offices and clinic or other outpatient health buildings accounted for the same percentage of health care buildings (47% each). Hospitals and other inpatient health buildings accounted for only 6% of health care buildings.

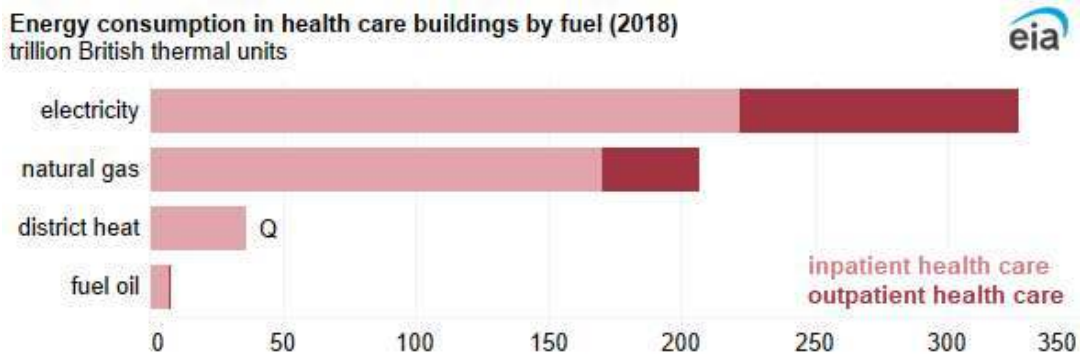
On average, health care buildings were 29,300 square feet per building. The size of inpatient health care buildings (hospitals) significantly affected the health care activity's average floorspace. On average, hospitals were 264,800 square feet per building, but outpatient health care buildings averaged 13,700 square feet.



Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*

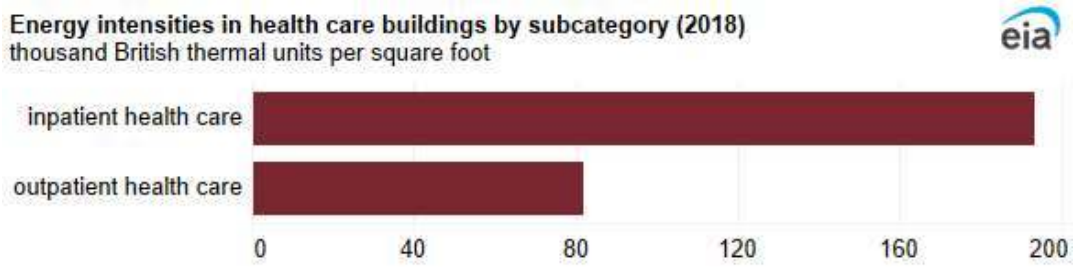
Energy use in health care buildings

Health care buildings used 581 trillion British thermal units (TBtu) of energy in 2018. Although health care buildings accounted for 4% of total commercial floorspace, these buildings accounted for approximately 9% of energy consumption in commercial buildings. In health care buildings, electricity was the most-used fuel (327 TBtu), followed by natural gas (207 TBtu). Although inpatient health care buildings accounted for only 7% of all health care buildings, these buildings accounted for most of the energy consumption. Inpatient health care buildings accounted for 68% of health care's electricity consumption and 82% of health care's natural gas consumption.



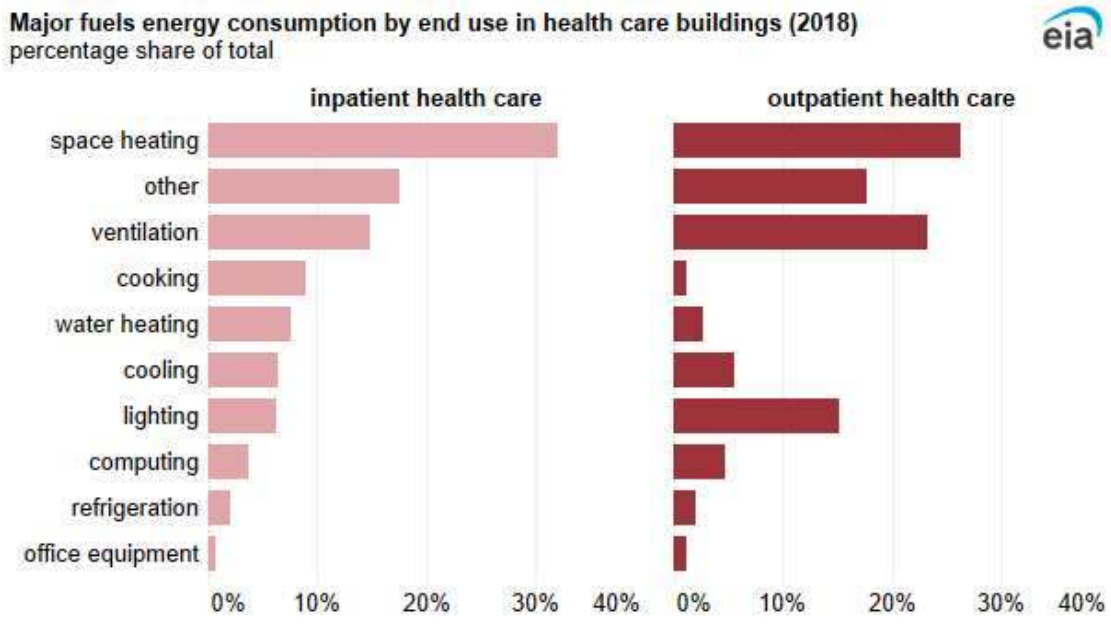
Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*
Note: Q = Outpatient health care data withheld either because the relative standard error was greater than 50% or the reporting sample had fewer than 20 buildings.

Although health care energy intensity was 144.5 thousand British thermal units (MBtu) per square foot, the intensities differed significantly between inpatient and outpatient health care buildings. Inpatient health care buildings used 193.3 MBtu per square foot, and outpatient health care buildings used 82.0 MBtu per square foot.



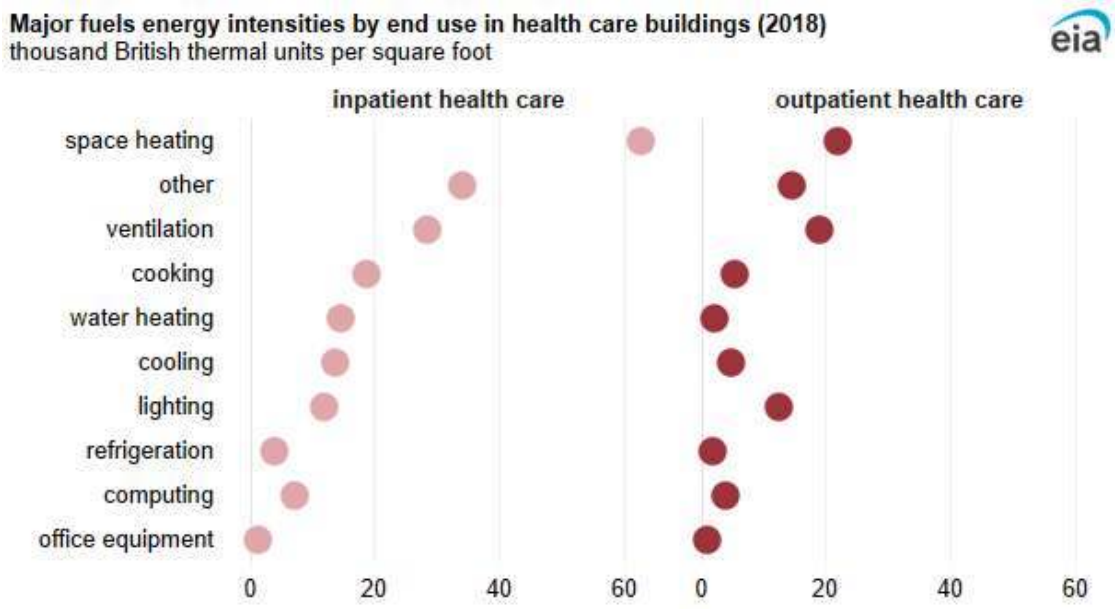
Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*

Space heating accounted for the largest share of end-use consumption for both inpatient (32%) and outpatient (26%) health care buildings. Inpatient health care had a larger share of its consumption dedicated to cooking (9%) and water heating (8%), although outpatient health care had larger shares of its consumption dedicated to ventilation (23%) and lighting (15%).



Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*

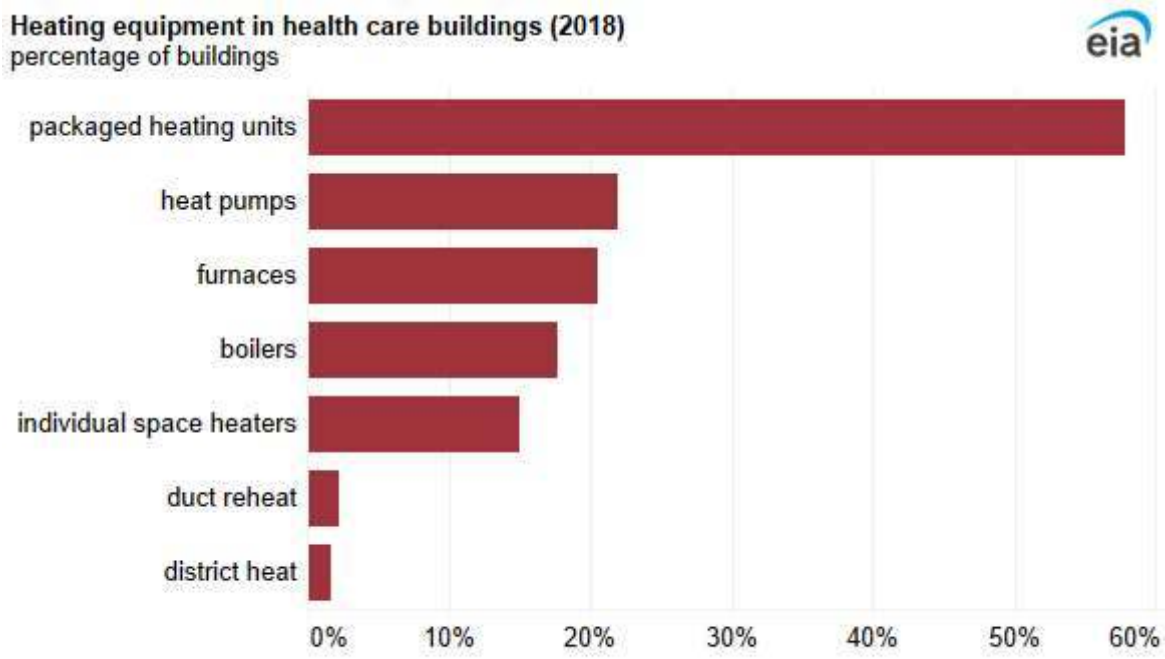
Although space heating accounted for the largest share of end-use consumption for both inpatient and outpatient health care buildings, the space heating intensity for inpatient health care (62.6 MBtu per square foot) was almost three times higher than the space heating intensity for outpatient health care (21.8 MBtu per square foot). When considering all commercial buildings, inpatient health care buildings had the highest space heating and ventilation intensities.



Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*

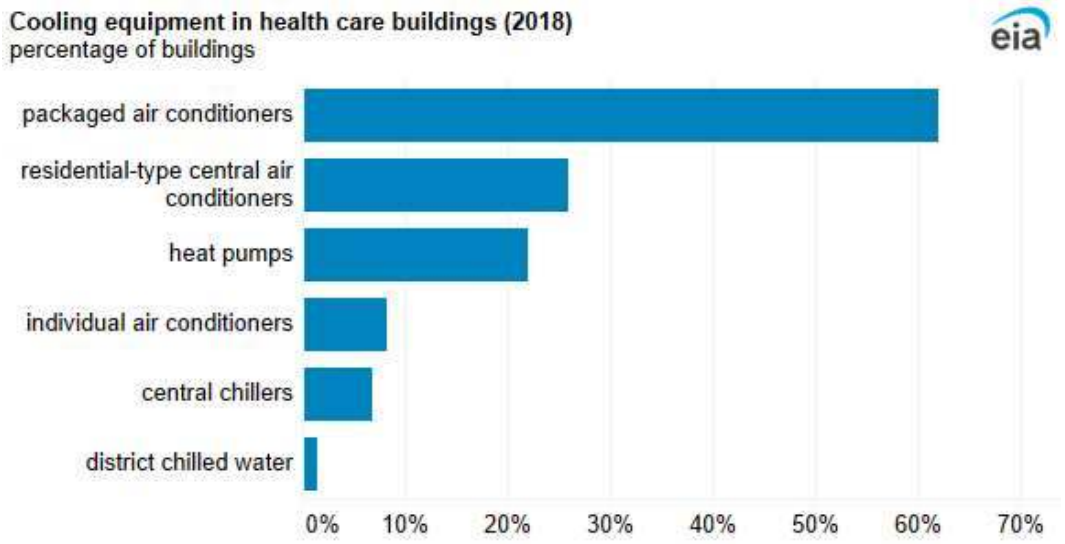
Inside health care buildings

Packaged heating units were the most common heating equipment (58%) in health care buildings. Heat pumps were the second-most-used heating equipment (22%).



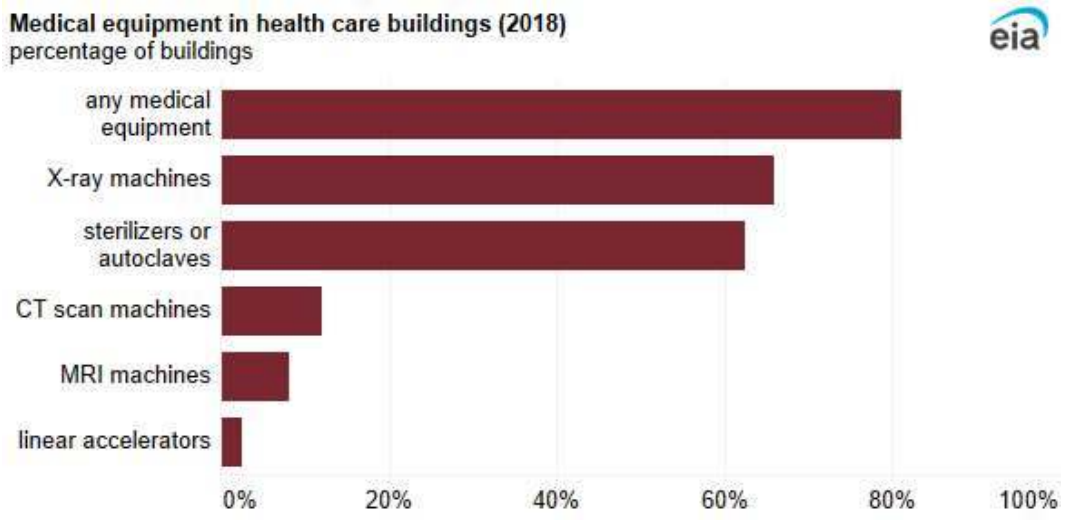
Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*
Note: More than one type of heating equipment may apply.

Packaged air conditioners were the most common cooling equipment (62%) in health care buildings. The second-most-used cooling equipment in health care buildings was residential-type central air conditioners (26%).



Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*
Note: More than one type of cooling equipment may apply.

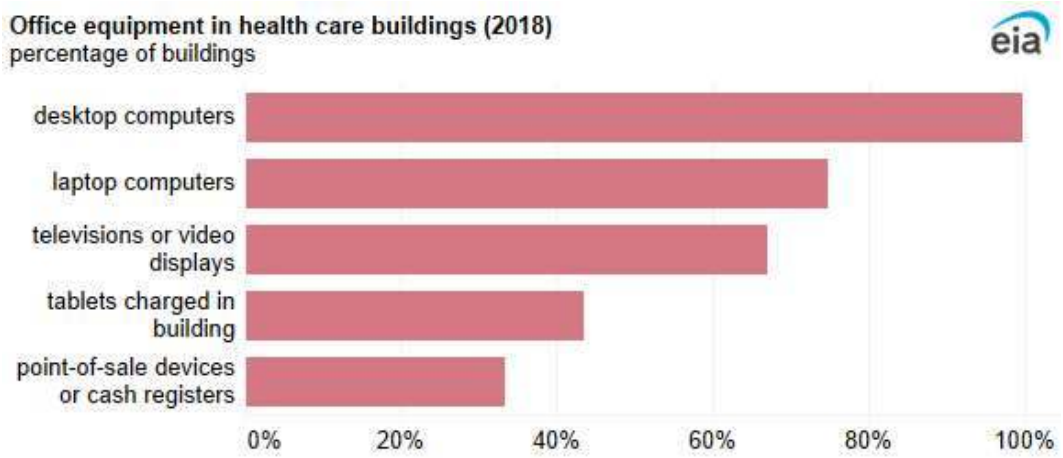
The majority of health care buildings (81%) had medical equipment. Among the health care buildings without medical equipment, most buildings were clinics or other outpatient health care and rehabilitation centers. X-ray machines were the most common medical equipment and were used in 66% of health care buildings.



Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*
Note: More than one type of medical equipment may apply.

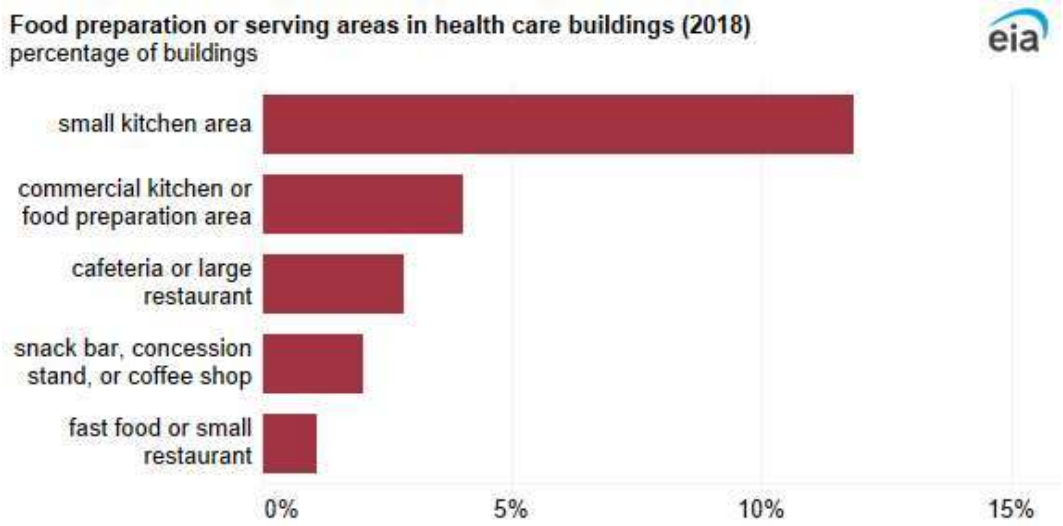
One-fourth of health care buildings used lab equipment, which includes fume hoods, gas chromatographs, centrifuges, spectrometers, and analysis equipment. Most lab equipment (83%) was used in outpatient health care buildings. Sterilizers or autoclaves were used in 62% of health care buildings. Approximately one-fourth (24%) of outpatient health care buildings had operating rooms used for outpatient surgery.

Most health care buildings had desktop computers, and three-fourths of health care buildings had laptops. Televisions and video displays were used in 67% of health care buildings, and tablets were charged in 44% of health care buildings. One-third of health care buildings had at least one cash register or point-of-sale device.



Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*
Note: More than one type of office equipment may apply.

Most health care buildings did not have areas for food preparation or serving. Small kitchen areas were the most common and were used in only 12% of all health care buildings. Commercial kitchen or food preparation areas were found in 4% of all health care buildings but in 56% of inpatient health care buildings; cafeterias or large restaurants were found in 3% of all health care buildings but in 44% of inpatient health care buildings.



Data source: U.S. Energy Information Administration, *Commercial Buildings Energy Consumption Survey*
Note: More than one type of food preparation or serving area may apply.

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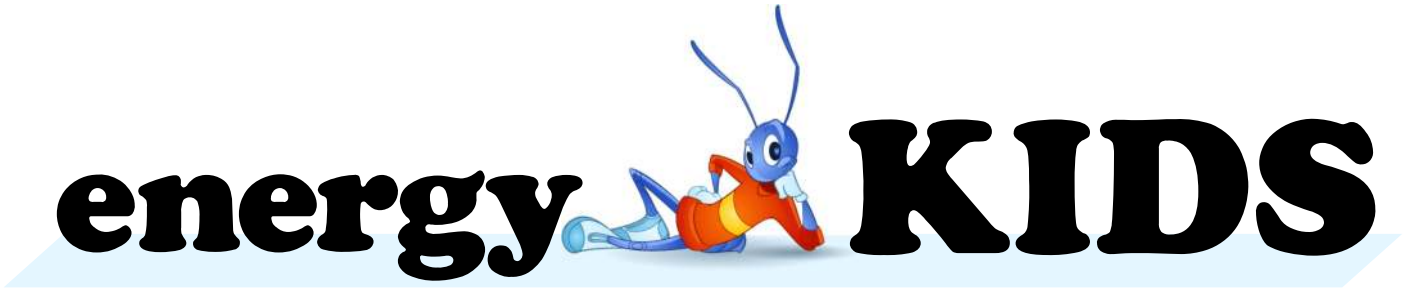
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- Events

O*NET OnLine

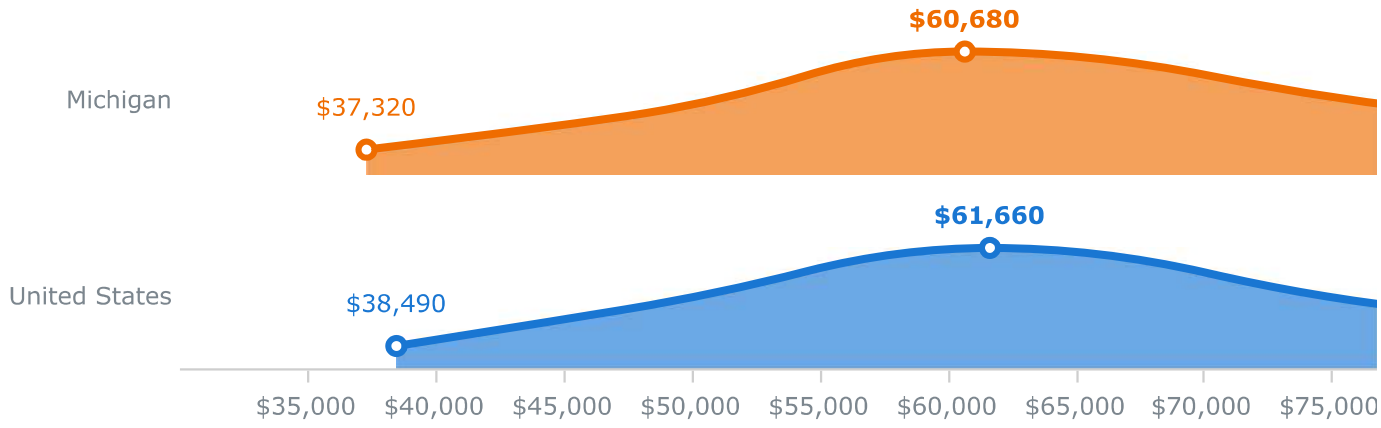
Michigan Wages

49-9062.00 - Medical Equipment Repairers Bright Outlook

Wages for state: Michigan Go

Wages near ZIP Code: Go

Annual Wages | Hourly Wages



In Michigan:

- Workers on average earn **$60,680**.
- 10% of workers earn **$37,320 or less**.
- 10% of workers earn **$98,430 or more**.

In the United States:

- Workers on average earn **$61,660**.
- 10% of workers earn **$38,490 or less**.
- 10% of workers earn **$98,280 or more**.

Source: Bureau of Labor Statistics 2025 wage data.

Full Details

Save Table: XLSX CSV

Location	Annual Low (10%)	Annual Q_L (25%)	Annual Median (50%)	Annual Q_U (75%)	Annual High (90%)
United States	$38,490	$47,470	$61,660	$78,500	$98,280

Location	Annual Low (10%)	Annual Q_L (25%)	Annual Median (50%)	Annual Q_U (75%)	Annual High (90%)
Michigan	$37,320	$48,240	$60,680	$79,960	$98,430
Ann Arbor, MI	$57,490	$72,370	$83,020	$98,430	$104,810
Detroit-Warren-Dearborn, MI	$37,310	$45,870	$60,420	$76,950	$99,050
Flint, MI	$32,070	$35,820	$47,650	$68,880	$80,210
Grand Rapids-Wyoming-Kentwood, MI	$42,910	$48,910	$63,570	$76,960	$93,840
Kalamazoo-Portage, MI	$45,640	$48,190	$48,290	$56,870	$76,480
Mid Michigan nonmetropolitan area	$34,770	$47,160	$56,400	$92,290	$99,240

O*NET OnLine

Medical Equipment Repairers

49-9062.00

Bright Outlook | Updated 2026

Test, adjust, or repair biomedical or electromedical equipment.

Sample of reported job titles: Biomedical Electronics Technician (Biomed Electronics Tech), Biomedical Engineering Technician (Biomed Engineering Tech), Biomedical Equipment Technician (BMET), Biomedical Technician (Biomed Tech), Dental Equipment Technician (Dental Equipment Tech), Durable Medical Equipment Technician (DME Tech), Medical Equipment Service Tech (Medical Equipment Service Technician), Repair Technician (Repair Tech), Service Technician (Service Tech), X-ray Service Engineer

Summary | Details | Custom | Easy Read | Veterans | Español

Contents

Occupation-Specific Information

Tasks

5 of 20 displayed

- Test or calibrate components or equipment, following manufacturers' manuals and troubleshooting techniques, using hand tools, power tools, or measuring devices.
- Perform preventive maintenance or service, such as cleaning, lubricating, or adjusting equipment.
- Inspect, test, or troubleshoot malfunctioning medical or related equipment, following manufacturers' specifications and using test and analysis instruments.
- Keep records of maintenance, repair, and required updates of equipment.
- Disassemble malfunctioning equipment and remove, repair, or replace defective parts, such as motors, clutches, or transformers.

Occupational Requirements

Work Activities

5 of 23 displayed

- **Repairing and Maintaining Electronic Equipment —** Servicing, repairing, calibrating, regulating, fine-tuning, or testing machines, devices, and equipment that operate primarily on the basis of electrical or electronic (not mechanical) principles.

- **Making Decisions and Solving Problems —** Analyzing information and evaluating results to choose the best solution and solve problems.
- **Repairing and Maintaining Mechanical Equipment —** Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- **Getting Information —** Observing, receiving, and otherwise obtaining information from all relevant sources.
- **Inspecting Equipment, Structures, or Materials** — Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.

Detailed Work Activities

5 of 26 displayed

- Calibrate equipment to specifications.
- Test mechanical systems to ensure proper functioning.
- Adjust equipment to ensure optimal performance.
- Inspect mechanical equipment to locate damage, defects, or wear.
- Lubricate equipment to allow proper functioning.

Work Context

5 of 26 displayed

- **Importance of Being Exact or Accurate —** 73% responded “Extremely important.”
- **Indoors, Environmentally Controlled —** 88% responded “Every day.”
- **E-Mail** — 86% responded “Every day.”
- **Face-to-Face Discussions with Individuals and Within Teams —** 81% responded “Every day.”
- **Telephone Conversations —** 71% responded “Every day.”

Experience Requirements

Job Zone

Title	Job Zone Three: Medium Preparation Needed
Education	Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree.
Related Experience	Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.
Job Training	Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced

workers. A recognized apprenticeship program may be associated with these occupations.

Job Zone Examples These occupations usually involve using communication and organizational skills to coordinate, supervise, manage, or train others to accomplish goals. Examples include hydroelectric production managers, desktop publishers, electricians, agricultural technicians, barbers, court reporters and simultaneous captioners, and medical assistants.

SVP Range (6.0 to < 7.0)

Training & Credentials

State training Select a State Go

Local training ZIP Code Go

Certifications Find certifications nationwide

State licenses Select a State Go

Apprenticeship Opportunities

All 4 displayed

Example apprenticeship titles for this occupation:

- Biomedical Equipment Technician
- Dental-Equip Install & Services
- Electromedical Equip Repairer (Alternate Title: Medical Equipment Repairer)
- Surgical Instrument Repair Specialist

Specific title(s) listed above are vetted by industry and approved by the U.S. Department of Labor for use in a Registered Apprenticeship Program.

Start your career and build your skillset. Visit **Apprenticeship.gov** to learn about opportunities related to this occupation.

Worker Requirements

Software Skills

5 of 12 displayed

- **Electronic mail software —** Microsoft Outlook
- **Enterprise resource planning ERP software —** SAP software

- **Medical software** — Medical equipment diagnostic software
- **Spreadsheet software** — Microsoft Excel
- **Video conferencing software** — FaceTime

Hot Technologies are requirements most frequently included across all employer job postings.
See all 7 Hot Technologies for this occupation.

In Demand skills are frequently included in employer job postings for this occupation.
See all 2 In Demand skills for this occupation.

Essential Skills

All 4 displayed

- **Critical Thinking** — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.
- **Reading Comprehension** — Understanding written sentences and paragraphs in work-related documents.
- **Active Learning** — Understanding the implications of new information for both current and future problem-solving and decision-making.
- **Active Listening** — Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Transferable Skills

5 of 10 displayed

- **Repairing** — Repairing machines or systems using the needed tools.
- **Equipment Maintenance** — Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.
- **Troubleshooting** — Determining causes of operating errors and deciding what to do about it.
- **Operations Monitoring** — Watching gauges, dials, or other indicators to make sure a machine is working properly.
- **Quality Control Analysis** — Conducting tests and inspections of products, services, or processes to evaluate quality or performance.

Knowledge

5 of 6 displayed

- **Mechanical** — Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
- **Computers and Electronics** — Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
- **Customer and Personal Service** — Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.

- **English Language —** Knowledge of the structure and content of the English language including the meaning and spelling of words, and rules of composition and grammar.
- **Engineering and Technology —** Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

Education

How much education does a new hire need to perform a job in this occupation? Respondents said:

39%	Associate's degree or other 2-year degree required
35%	High school diploma or equivalent required
13%	Post-secondary certificate required

Worker Characteristics

Abilities

5 of 22 displayed

- **Near Vision —** The ability to see details at close range (within a few feet of the observer).
- **Problem Sensitivity —** The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing that there is a problem.
- **Finger Dexterity —** The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.
- **Deductive Reasoning —** The ability to apply general rules to specific problems to produce answers that make sense.
- **Arm-Hand Steadiness —** The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.

Interests

All 3 displayed

Interest code: **RCI**

Want to discover your interests? Take the **O*NET Interest Profiler**.

- **Realistic —** Work involves designing, building, or repairing of equipment, materials, or structures, engaging in physical activity, or working outdoors. Realistic occupations are often associated with engineering, mechanics and electronics, construction, woodworking, transportation, machine operation, agriculture, animal services, physical or manual labor, athletics, or protective services.
  - **Mechanics/Electronics —** Work involves maintaining and repairing of machinery, such as automotive engines, electronic equipment, computers, and communication systems.
  - **Engineering —** Work involves applying science and technology to the design, building, testing, and use of electrical and electronic components, mechanical devices and machines, automotive,

marine, and aerospace equipment and vehicles, materials, or structures.

- **Conventional** — Work involves following procedures and regulations to organize information or data, typically in a business setting. Conventional occupations are often associated with office work, accounting, mathematics/statistics, information technology, finance, or human resources.
- **Investigative —** Work involves studying and researching non-living objects, living organisms, disease or other forms of impairment, or human behavior. Investigative occupations are often associated with physical, life, medical, or social sciences, and can be found in the fields of humanities, mathematics/statistics, information technology, or health care service.
  - **Health Care Service —** Work involves providing health care services to individuals to include the diagnosis, prevention, or treatment of diseases and other forms of illness or impairment.

Work Styles

All 4 displayed

- **Cautiousness —** A tendency to be careful, deliberate, and risk-avoidant when making work-related decisions or doing work.
- **Integrity —** A tendency to be honest and ethical at work.
- **Attention to Detail** — A tendency to be detail-oriented, organized, and thorough in completing work.
- **Dependability —** A tendency to be reliable, responsible, and consistent in meeting work-related obligations.

Workforce Characteristics

Wages & Employment Trends

Median wages (2025)	$29.64 hourly, $61,660 annual
State wages	Select a State Go
Local wages	ZIP Code Go
Employment (2024)	68,000 employees
Projected growth (2024-2034)	Much faster than average (7% or higher)
Projected job openings (2024-2034)	7,300
State trends	Select a State Go
Top industries (2024)	Wholesale Trade Health Care and Social Assistance

Source: Bureau of Labor Statistics 2025 wage data and 2024-2034 employment projections. "Projected growth" represents the estimated change in total employment over the projections period (2024-2034). "Projected job openings" represent openings due to growth and replacement.

Job Openings on the Web

State job openings Select a State Go

Local job openings ZIP Code Go

More Information

Related Occupations

5 of 10 displayed

- 17-3021.00 Aerospace Engineering and Operations Technologists and Technicians Bright Outlook
- 17-3028.00 Calibration Technologists and Technicians
- 17-3023.00 Electrical and Electronic Engineering Technologists and Technicians
- 49-2094.00 Electrical and Electronics Repairers, Commercial and Industrial Equipment
- 17-3029.08 Photonics Technicians

Professional Associations

Disclaimer: Sources are listed to provide additional information on related jobs, specialties, and/or industries. Links to non-DOL Internet sites are provided for your convenience and do not constitute an endorsement.

National Associations

- American Association for Homecare
- American Society for Clinical Pathology
- Association for the Advancement of Medical Instrumentation
- National Association of Nephrology Technicians/Technologists

C.II - Second Prong - Well-Positioned to Advance the Proposed Endeavor:

05/27/2025

Julio Conforto
727 Coronel Joaquim Ignácio Taborda Ribas, St.
Curitiba, Paraná 80730330

Dear Julio,

Siemens Medical Solutions USA, Inc., (Siemens Healthineers) is pleased to extend an offer of employment for the position of Customer Service Engineer 3, reporting to Rose Brewart-Koda.

In this role, you will be considered a Remote worker, primarily assigned to the Detroit, Michigan geographic area.

In this non-exempt position, your rate of pay will be $43.27 an hour, to be paid biweekly in accordance of your company's payroll schedule.

By accepting this offer, you are agreeing to work Shift 3A, M-F, 8A – 5P. Willing to work different shifts as business needs dictates may be required in the future. Your manager will provide more details regarding your work schedule and any resulting shift differential pay you may be eligible for if you move away from Shift 3A.

You are eligible to participate in the Incentive Plan with a target of 5% of your pay. For your first participating year, your Incentive Compensation plan will be prorated based upon your start date. Your manager will provide a document containing plan details in the weeks following your hire. If your start date is July 1st or later, you may not be eligible until the start of the next fiscal year.

You will be receiving an American Express Corporate Card. Please acknowledge the American Express Corporate Card policy during employee onboarding process. You will receive the card in 7-10 business days after your start. Card will be mailed to your home address.

This offer is contingent upon obtaining all necessary documents that will authorize your employment in the United States prior to your start date. The Human Resources department will coordinate the immigration process and keep you informed of the status.

You will be eligible for Paid Time Off (PTO) policy. For your first calendar year, your PTO will be prorated based on your start date. PTO can be used for any reason, including vacation, an occasional sick day, doctor appointments for you or your family, or for personal business. Please refer to the Siemens Healthineers PTO policy by visiting Siemens Healthineers USA page.

You are eligible for benefits under the Siemens Healthineers Benefits Program and the Siemens Medical Solutions Savings Plan. These programs offer a variety of benefit options for you, please visit our Siemens Healthineers Benefits page, Siemens Healthineers USA, for more details. In addition you may be eligible to participate in the Siemens Healthineers Share Matching program.

You are eligible to receive relocation assistance. We are offering the Non-management Policy to support you with your move. After accepting the offer and, as part of the electronic onboarding process, you will be provided with the

Siemens Relocation Policy which you will be asked to acknowledge. Shortly after, you will receive an email from Pulse Analytics (pulse@siemens.com) containing the relocation policy and link to complete the relocation application and repayment agreement. Please complete the fields and upon receipt of your offer acceptance and completed relocation application and repayment agreement, the Siemens US Relocation Team will submit your relocation authorization to the Relocation Management Company to initiate services. Your Relocation Consultant will contact you within 2 days of receipt of the authorization to review your relocation benefits, coordinate all services and facilitate all relocation payments.

For additional information or general questions, please contact Domestic Mobility Management (DMM) relocation.gbs@siemens.com.

Employment Terms

Your offer of employment is contingent upon successful completion of a pre-employment drug test. You will be receiving an email with specific instructions related to the testing facility. The collection must be completed within 3 days not including holidays or weekends. If you are unable to complete the collection within the time limit, please contact your Recruiter or Staffing Coordinator immediately. If the collection is not performed within 3 days and scheduling conflicts are not communicated to Siemens Healthineers, your employment eligibility may be discontinued.

This letter sets forth the entire offer of employment. Any promises, agreements or understandings not stated herein are not binding. Certain benefits referred to herein are subject to defined plans or policies, which may change at Siemens Healthineers' discretion. This offer of employment does not constitute a contract of employment between Siemens Healthineers and the employee for any fixed term. All Siemens Healthineers employees are employed on an at-will basis, whereby the employment may be terminated with or without cause or advance notice by either the employee or the employer. Further, the terms of employment may be altered at any time at Siemens Healthineers sole discretion. No one other than an officer of Siemens Healthineers has the authority to enter into an agreement for employment for a specified period of time, and any such agreement must be in writing and must be signed by you and an officer of Siemens. No other policies or practices of Siemens Healthineers should be construed as varying the at-will status of any employee.

This offer of employment is contingent upon your meeting the Company's employment standards, including, but not limited to, your ability to perform the essential functions of the position with or without reasonable accommodation and successful completion of the required background verification. Prior to the start of your employment, you will be required to read and sign applicable documents covering Siemens Healthineers' business practices. In addition, you will be required to provide verification of Employment Eligibility as required under the Immigration Reform and Control Act of 1986. You must provide proof of your eligibility to work within your first three business days of employment.

The Customer Service Engineer role is a remote based position, where most of the assigned work week is in the field working at/with their assigned customer locations. The Customer Service Engineer is required to have their residence within 45 minutes safe driving time of the assigned geographic area.

Please do not take any action in reliance upon this offer letter, such as resigning from your current employment, until you have been notified that you have successfully passed the screening process described in this offer.

Please make sure not to bring with you to Siemens Healthineers any materials that contain the trade secrets or proprietary information of third parties. Siemens Healthineers respects the trade secret rights of other companies and expects all employees to do the same.

You will receive an email in the near future advising you of your official start date. This is the only date you should rely upon when making plans regarding your start of employment with Siemens Healthineers.

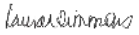
Julio, we sincerely believe Siemens Healthineers will provide the challenges and opportunities you seek, and we look forward to your contributions. Should you have any questions in the meantime, please feel free to contact your recruiter.

Please sign and accept this offer within 5 days of the date listed above, or the offer will no longer be valid.

Sincerely,

Rose Brewart-Koda
Service Operations Manager

Sandra Hodge
Siemens Healthineers Talent Acquisition



Electronically signed by: Laura Timmons
Reason: Document Execution
Date: May 27, 2025 13:24 PDT

Authorized Signatory



Electronically signed by: Julio Conforto
Reason: Document Execution
Date: May 28, 2025 22:21 ADT

Julio Conforto

APPLICATION FOR RELOCATION ASSISTANCE

A. EMPLOYEE INFORMATION (To be completed by Foreign Local Hire)

EMPLOYEE INFORMATION:

Last Name: Conforto

First Name: Julio

Siemens Global ID (GID): Z003B8DE

Effective Transfer Date: 8/25/25

Marital status:
- ○ Single
- ◉ Married
- ○ Domestic Partnership

EMPLOYEE CONTACT INFORMATION:

Primary telephone: +5541998517658

Secondary telephone: +5549999211671

Preferred E-mail: .julio@gmail.com

Are you a US citizen or Green Card holder?
- ○ Yes
- ◉ No

Employee Current Address:

Street Address: 727 Coronel Joaquim Ignácio Taborda Ribas

City: Curitiba

State/Province: Paraná

Country & Postal Code: Brazil 80730-330

B. FAMILY INFORMATION *(Only include dependent children that will reside with you in the new location.)*

Spouse/Domestic Partner:

Last Name: de Azevedo

First Name: Diéssica

Relationship to employee
- ◉ Spouse
- ○ Domestic Partner

Children:

Number of children:

C. HOUSEHOLD GOODS MOVE

Do you plan to ship furniture? ◉ Yes ○ No

Do you plan to ship personal items? ◉ Yes ○ No

D. ATTESTATION & Signature

I, Julio Conforto, attest to the validity of the information I provided above.

Employee's Signature:

Date (MM/DD/YYYY): 6/23/25

RELOCATION EXPENSE PAYBACK AGREEMENT

I, Julio Conforto , having accepted a position with Siemens Healthineers (hereinafter called "the Company"), which will require that I move my place of residence, and the Company making or having cash advancement(s) and payment of certain cost associated with this move, agree to repay the Company according to the terms set forth below if: (i) my employment is terminated with the Company within 24 months from the date that my work commences and/or I am placed on the payroll at the new location; or (ii) I do not move my place of residence. These repayment obligations will be waived if the reason for my termination of employment is due to my death, approved long-term disability, company approved retirement, or a reduction in force. I agree to repay the Company an amount equal to the actual relocation expenses paid for and /or reimbursed to me by the Company in accordance with Company policy and in connection with relocating from my previous place of residence to the location of my new employment with the Company. I further agree that the amount I owe the Company pursuant to this agreement at the time of termination will be satisfied by a cash payment of the total liability due on the date of my termination. In the event of (i) referenced above: The amount due the Company will be prorated based on the number of days remaining in the 24-month obligation period. The proration is calculated as follows: 1-365 days from hire date in new location = 100% payback obligation; 366-730 days from hire date in new location = 50% payback obligation. In the event of (ii) referenced above: 100% payback obligation.

I further consent to and authorize a maximum payroll deduction allowed by law to be withheld from my final paycheck, payment of accrued but unused PTO, separation or severance payment, or any other monies owed to me up to the remaining amount of the payback obligation. I also agree to repay the Company, upon termination but no later than 10 days after my termination of employment, the remaining balance of the debt that has not been repaid via payroll deduction or deducted from my final paycheck. I have read all the above provisions and do agree to them in consideration of the monies paid by the Company to me for the purpose of relocation from the place of my previous residence to the place of my new employment with the Company.

I understand and agree that my consent to and execution of this Agreement shall not alter in any way the at-will nature of my employment with the Company and shall not be construed as in any way obligating the Company to continue my employment for 24 months or any other period of time. In addition, I understand that the relocation benefits extended to me are to be treated as confidential.

I further acknowledge and agree that my personal information (including, but not limited to, credit information, address, contact details) may be shared with (a) the Company and its affiliates; (b) the Relocation Management Company and its affiliates; (c) third parties engaged to provide services to me (e.g. household goods transportation, mortgage lenders) - which services have been requested by the Company or me); (d) enforcement authorities, governmental agencies, and/or courts upon receipt of their request for such information; and (e) others as permitted by applicable law.

In the event my relocation involves a Company supported real estate transaction, I acknowledge and agree that inspections, which may include a general home inspection, structural, roof, septic, well, pool, spa and termite, as well as any other inspections that are customary in my area may be ordered on my property at the request of the Company. I acknowledge and agree that any inspections ordered and received must be disclosed to and acknowledged by subsequent purchasers at the time of contract negotiation.

ACKNOWLEDGED AND AGREED:

Date: 5/23/25 Employee Signature: ULIO :ONFORTO:07952343920 Assinado de forma digital por JULIO CONFORTO:07952343920 Dados: 2025.06.23 17:27:24 -03'00'

If any questions, please contact your FLH Consultant:
FLH Contact Page

C.II - Second Prong: Evidence Supporting the Viability of the Proposed Endeavor

REAL ESTATE APPRAISAL REPORT

Property: Residential Apartment, Jardim Champagnat Building, Unit 1003 Parking Space 36 - Address: Rua Coronel Joaquim Ignácio Taborda Ribas, 727 - Bigorrilho - Curitiba - Paraná - Brazil

Property Registration: 66.429 and 66440 of the 1st District of Curitiba

Identification of the Asset Being Evaluated

Phone (41) 3022-1117
OWNER: LUIS FLAVIO FIDELIS GONÇALVES
CPF: 039.175.479.37

REGISTRATION No. 66.429

INITIALS

PROPERTY - **Apartment under No. 1003 (one thousand and three)**, located on the 10th floor of **"JARDIM CHAMPAGNAT BUILDING"**, **situated at Rua Coronel Joaquim Ignácio Taborda Ribas, No. 727**, in the Bigorrilho neighborhood, in this Capital, located on the right side from the perspective of someone looking at the building from Rua Coronel Joaquim Ignácio Taborda Ribas, with access through the floor's hallway, and from the perspective of someone observing its single entrance door from said hallway, bordering on the right side with the apartment ending in number 2, on the left side with the apartment ending in number 4, with the following premises: living/dining room, kitchen/laundry room, balcony, hallway, shared bathroom, 02 (two) bedrooms, one being a suite with a private bathroom, with a private built area of 62.2400 m², a common-use built area of 14.9700 m², a total built area of 77.2100 m², a total land plot share of 10.0700 m², and the right of common use with others of the uncovered recreation area located on the ground floor of 4.3900 m², and the corresponding undivided interest in the land of 0.009217 in the common areas, constructed on land plot E-15/E-16-A, resulting from the subdivision of land plot E-15/E-16 of the João Burda Plan, with fiscal tax identification No. 15-014-032.000-8, facing Rua Coronel Joaquim Ignácio Taborda Ribas .-.-.-.-.-.-.-.-.-.-.-.-.-.-.-

Phone (41) 3022-1117
OWNER: LUIS FLAVIO FIDELIS GONÇALVES
CPF: 039.175.479.37

REGISTRATION No. 66.440

PROPERTY - **Parking space No. 36 (thirty-six)**, covered, located on the 2nd basement level of **"JARDIM CHAMPAGNAT BUILDING", situated at Rua Coronel Joaquim Ignácio Taborda Ribas, No. 727**, in the Bigorrilho neighborhood, in this Capital, with capacity for 1 (one) small-sized passenger vehicle, with no need for a valet, with a private built area of 12.0000 m², a common-use built area of 11.5500 m², a total built area of 23.5500 m², a total land plot share of 2.0000 m², and the corresponding undivided interest in the land of 0.001827 in the common areas, constructed on land plot E-15/E-16-A, resulting from the subdivision of land plot E-15/E-16 of the João Burda Plan, with fiscal tax identification No. 15-014-032.000-8, facing Rua Coronel Joaquim Ignácio Taborda Ribas.-

Property Description

Apartment featuring a fully equipped 2-environment area, a kitchen with cabinetry and appliances, a laundry area, 2 bedrooms, one of which is a suite with built-in wardrobes and a bed, the apartment is fully furnished and decorated.
Individual parking space with capacity for 01 small-sized vehicle.

Appraisal Result

Suggested Sale Value - R$ 800,000.00 (EIGHT HUNDRED THOUSAND REAIS)

The values expressed above were obtained in accordance with local market liquidity as of this date, complying with the property's specific attributes, its physical characteristics, its location, and the supply of similar properties in the real estate market.

Final Remarks

In order for this instrument to produce its legal and juridical effects, I, a Real Estate Broker registered with the CRECI (Regional Council of Real Estate Brokers) of the 6th Region under License No. 16.391, hereby certify this appraisal, which was prepared in accordance with Article 3 of Law No. 6.530/78.

Curitiba 03/07/2026.

Luciano Faria dos Santos Commercial Manager CRECI 16391 F
Basi Assessoria Imobiliária Ltda CRECI 3751J

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ Date: July 31, 2026.

LAUDO DE AVALIAÇÃO DE BENS IMÓVEIS

Imóvel: Apartamento Residencial Ed Jardim Champagnat unidade 1003 vaga 36 - Endereço: Rua Coronel Joaquim Ignácio Taborda Ribas 727 – Bigorrilho – Curitiba – Paraná – Brasil

Matrícula do Imóvel: 66.429 e 66440 da 1ª Circunscrição de Curitiba.

Identificação do Bem Avaliando:

RUBRICA

Fone (41) 3022-1117
TITULAR: LUIS FLAVIO FIDELIS GONÇALVES
C.P.F 039.175.479.37

MATRÍCULA Nº 66.429

IMÓVEL - **Apartamento sob nº 1003 (um mil e três)**, localizado no 10º pavimento do **"EDIFÍCIO JARDIM CHAMPAGNAT"**, **situado na Rua Coronel Joaquim Ignácio Taborda Ribas nº 727**, situado no bairro Bigorrilho, nesta Capital, localizado na lateral direita para quem da Rua Coronel Joaquim Ignácio Taborda Ribas olha o prédio, com acesso pelo hall do pavimento, e de quem do referido hall observa sua única porta de entrada, confrontando o lado direito com o apartamento de numeração final 2, do lado esquerdo com o apartamento de numeração final 4, com as seguintes dependências: sala de estar/jantar, cozinha/lavanderia, sacada, circulação, banheiro social, 02 (dois) dormitórios sendo uma suíte com banheiro privativo, com a área construída privativa de 62,2400m2, área construída de uso comum de 14,9700m2, área construída total de 77,2100m2, quota do terreno total de 10,0700m2 e direito de uso em comum com outros da área de recreação descoberta localizada no térreo de 4,3900m2 e a fração ideal do solo de 0,009217 que lhe corresponde nas partes comuns, construído no lote de terreno E-15/E-16-A, resultante da subdivisão do lote de terreno E-15/E-16 da Planta João Burda, com a indicação fiscal nº 15-014-032.000-8, de frente para a Rua Coronel Joaquim Ignácio Taborda Ribas.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-

Fone (41) 3022-1117
TITULAR: LUIS FLAVIO FIDELIS GONÇALVES
C.P.F 039.175.479.37

MATRÍCULA Nº 66.440

IMÓVEL - **Vaga de garagem sob nº 36 (trinta e seis)**, coberta, localizada no 2º subsolo do **"EDIFÍCIO JARDIM CHAMPAGNAT"**, **situado na Rua Coronel Joaquim Ignácio Taborda Ribas nº 727**, situado no bairro Bigorrilho, nesta Capital, com capacidade para 1 (um) veículo de passeio de porte pequeno, sem necessidade de manobrista, com a área construída privativa de 12,0000m2, área construída de uso comum de 11,5500m2, área construída total de 23,5500m2, quota do terreno total de 2,0000m2 e a fração ideal do solo de 0,001827 que lhe corresponde nas partes comuns, construído no lote de terreno E-15/E-16-A, resultante da subdivisão do lote de terreno E-15/E-16 da Planta João Burda, com a indicação fiscal nº 15-014-032.000-8, de frente para a Rua Coronel Joaquim Ignácio Taborda Ribas.-

Descrição do Imóvel

Apartamentos com sala para 2 ambientes equipada, cozinha com armários e eletros, área de serviço, 2 dormitórios sendo 1 suíte com armários e cama, apartamento totalmente mobiliado e decorado. Vaga de garagem individual para 01 veículo de porte pequeno.

Resultado da Avaliação

Valor de Venda Sugerido - R$ 800.000,00 (OITOCENTOS MIL REAIS)

Os valores expressos acima foram obtidos em concordância com a liquidez do mercado local, na presente data, obedecendo aos atributos particulares do imóvel, suas caracteristicas físicas, sua localização e a oferta de imóveis assemelhados no mercado imobiliário.

Observações finais

Para que produza os seus legais e jurídicos efeitos, eu Corretor de Imóveis inscrito no CRECI 16391 da 6a. Região sob nº certifico este parecer, que foi elaborado de acordo com o art. 3º da Lei 6.530/78.

Curitiba 07/03/2026.

Luciano Faria dos Santos Gerente Comercial CRECI 16391 F
Basi Assessoria Imobiliária Ltda CRECI 3751J

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1st REAL ESTATE REGISTRY
Curitiba - Paraná
Rua Padre Anchieta, 2050 - 5th Floor
Phone: (41) 3022-1117
REGISTRAR: LUIS FLAVIO FIDELIS GONÇALVES
CPF 039.175.479.37

GENERAL RECORD

REGISTRATION No. 66.440

ENTRY 01

INITIALS

CNM 083253.2.0066440-80

PROPERTY - **Parking space No. 36 (thirty-six)**, covered, located on the 2nd basement floor of **"JARDIM CHAMPAGNAT BUILDING"**, situated at **Rua Coronel Joaquim Ignacio Taborda Ribas No. 727**, in the Bigorrilho neighborhood, in this Capital, with capacity for 1 (one) small-sized passenger vehicle, without the need for a valet, with a private built area of 12.0000 sqm, common built area of 11.5500 sqm, total built area of 23.5500 sqm, share of total land of 2.0000 sqm, and the ideal fraction of the land corresponding to 0.001827 of the common parts, built on land lot E-15/E-16-A, resulting from the subdivision of land lot E-15/E-16 of the João Burda Plan, under Tax Identification No. 15-014-032.000-8, facing Rua Coronel Joaquim Ignacio Taborda Ribas. .-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-

OWNER - SCHABATURA ENGENHARIA E CONSTRUÇÕES CIVIS LTDA (CNPJ No. 79.597.639/0001-56), a private legal entity, with registered office at Avenida João Gualberto, No. 1673, suite 37, Alto da Glória, Curitiba-Paraná. .-.

PRIOR REGISTRATION - R-10 of registration No. 44.418 of the General Record of this Office, of December 30, 2015. The present registration is opened upon request, which is digitally filed in this Office under No. 276.851 - (vk/ag). .-.

Seal: F372J.9EqPp.ATsC7-hYsD9.ejYYw. Curitiba, October 01, 2021.

Luis Flávio Fidelis Gonçalves, Registrar: Gilmara Ferreira Melo Deputy

AV-1-66.440 - (Protocol 276.851 of 08/27/2021 - TRANSFER OF ASSET SEGREGATION REGIME) - I proceed with the present annotation as a transfer of the act performed in AV-12 of registration No. 44.418 of the General Record of this Office, which states the following: the real estate property on which the Jardim Champagnat Building was built was subjected to the asset segregation regime, as provided for in Articles 31-A et seq. of Law No. 4.591/64. (Fees: 60 VRC = R$ 13.02 - Funrejus: R$ 3.25 - FUNDEP: R$ 0.65 - ISS (Service Tax): R$ 0.52 vk/ag - Seal: F372J.9EqPp.ATHC7-hYnEK.ejYYr). Curitiba, October 01, 2021. Luis Flavio Fidelis Gonçalves, Registrar:

Gilmara Ferreira Melo Deputy

AV-2-66.440 - (Protocol 276.851 of 08/27/2021 - CONDOMINIUM CHARTER - The condominium charter of "**JARDIM CHAMPAGNAT BUILDING**" were registered in this Office under No. 6.136 in the Auxiliary Record book. (Registry Fees and Funrejus: exempt - vk/ag). Curitiba, October 01, 2021. Luis Flávio Fidelis Gonçalves, Registrar:

Gilmara Ferreira Melo Deputy

AV-3-66.440 - (Protocol 280.698 of 12/16/2021 - TAX IDENTIFICATION- In accordance with the Property Tax Registry Certificate issued by the City of Curitiba (digitally filed under No. 280.698), I proceed with the present annotation to record that the real estate property subject to this registration has tax identification No. 15-014-032.101-2. (Registry Fees: 315 VRC = R$ 68.36 - Funrejus: R$ 17.09 - FUNDEP: R$ 3.41 - ISS: R$ 2.73 - sa/kr - Seal: F372V.9wqP3.PjhyO-G5pUO.MIcRA). Curitiba, December 27, 2021. Luis

REG. No. 66.429

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Flavio Fidelis Gonçalves, Registrar: Gilmara Ferreira Melo Deputy

AV-2-66.440 - (Protocol 280.698 of 12/16/2021 - CANCELLATION OF ASSET SEGREGATION REGIME) - In view of the authorization contained in the private instrument subject to the registration to be performed in R-5 of this registration, of which a copy is digitally filed under No. 280.698, I proceed with the present annotation to record the **cancellation of the asset segregation regime subject to AV-1 of this registration**. (Registry Fees: 315 VRC = R$ 68.36 - Funrejus: R$ 17.09 - FUNDEP: R$ 3.41 - ISS: R$ 2.73 - ag/kr - Seal: F372V.9wqP3.PjtyO-G5dw3.MIcRV). Curitiba, December 27, 2021. Luis

Flavio Fidelis Gonçalves, Registrar: Gilmara Ferreira Melo Deputy

R-5-66.440 - (Protocol 280.698 of 12/16/2021 - PURCHASE AND SALE) - By private instrument of purchase and sale No. 916.500.341 - SFH - executed in Chapecó-Santa Catarina on November 01, 2021, of which a copy is digitally filed under No. 280.698, **SCHABATURA ENGENHARIA E CONSTRUÇÕES CIVIS LTDA** (CNPJ No. 79.597.639/0001-56), a private legal entity, with registered office at Avenida João Gualberto Avenue No. 1673, suite 37, Alto da Glória, Curitiba-Paraná, **sold** the real estate property described in this registration to **JULIO CONFORTO** (Driver's License No. 06120230512-DETRAN/PR and CPF/MF No. 079.523.439-20), Brazilian, single, of legal age, engineer, who is in a civil union under the separation of property regime with DIESSICA DE AZEVEDO (Identity No. 52155757-SESP/SC and CPF/MF No. 065.335.259-05), Brazilian, single, of legal age, judicial officer, residing and domiciled at Rua Padre Anchieta No. 1965, apartment 304N, Bigorrilho, Curitiba-Paraná, for the amount of R$ 47,500.00 (forty-seven thousand and five hundred reais), which added to R$ 454,316.11 corresponding to the value of another real estate property acquired under the same instrument, totals the amount of R$ 501,816.11, fully paid, of which R$ 30,000.00 was paid with personal funds, R$ 78,435.14 with funds from the FGTS linked account, and the remainder through financing as per R-6 of this registration. The joint certificate of the Federal Revenue and INSS in the name of the seller, duly validated, was presented and is digitally filed under No. 280.698. (Consulted in the CNIB - HASH Code: 8267. dafc. 0590. f64c. 714d 6501. ae2d. 9342. ea25. f65b for CNPJ No. 79.597.639/0001-56; 8483. bee7. 0bf8. A6bd. 62ec. 0458. 62f3. 1d35. E767. 705c for CPF No. 079.523.439-20 - ITBI - Valuation: R$ 501,816.11 together with another - Registry Fees: 60 VRC = R$ 13.03 - Funrejus: R$ 95.00 - FUNDEP: R$ 0.65 - ISS: R$ 0.52 - DOI issued - sa/kr - Seal: F372J.9wqP3.PjByO-G5Q38.ejcRT). Curitiba, December 27, 2021. Luis Flávio Fidelis Gonçalves, Registrar:

Gilmara Ferreira Melo

R-6-66. 429 - (Protocol 280.698 of 12/16/2021 - DEED OF TRUST) - By the same instrument mentioned in R-5 of this registration, **JULIO CONFORTO**, already identified and qualified, **transferred under deed of trust,** in addition to the real estate property subject to registration No. 66.440 of the General Record of this Office, the real estate property described in this registration to **BANCO DO BRASIL S.A**. (CNPJ No. 00.000.000/0001-91), a private legal entity, with registered office in Brasília-Federal District, through its CHAMPAGNAT-PR branch, prefix 1519-9, to secure a financing in the amount of R$ 396,567.18 (three hundred and ninety-six thousand, five hundred and sixty-seven reais and eighteen centavos), payable in 361 (three hundred and sixty-one) installments, with the first installment due on December 15, 2021, and the last one on November 15, 2051, with the following interest rates during the grace and amortization periods: nominal rate of 8.316% per annum, effective rate of 8.64% per annum, nominal rate of 0.693% per month, and the rates for Banco do Brasil salary maintenance: nominal

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INITIALS	ENTRY
	02 / Reg. 66.440

CNM 083253.2.0066440-80

CONTINUATION

rate of 8.172% per annum, effective rate of 8.49% per annum, nominal rate of 0.681% per month. Real estate property appraisal value for extrajudicial auction purposes: R$ 47,500.00. GRACE PERIOD: 30 days. Other clauses, conditions, and obligations contained in the instrument. (Consulted in the CNIB - HASH Code: f6f2. e821. f5ad. 4b0f. 4275. 1c4e. 4181. a102. 6be6. 9e65 for CNPJ No. 00.000.000/0001-91 - Fees: 1078 VRC = R$ 233.93 - 1st acquisition under SFH - Funrejus: exempt - Article 3, line b, item 11 of Law No. 12216/98 - FUNDEP: R$ 11.69 - ISS: R$ 9.35 - sa/kr - Seal: F372V.9wqP3.PiWvO-G5Y5d.MIcRX). Curitiba, December 27, 2021. Luis Flávio Fidelis Gonçalves, Registrar:

Gilmara Ferreira Melo

I HEREBY CERTIFY that the present photocopy is a true and faithful reproduction of registration No. 66. 429 of the General Record of this Office.
I FINALLY CERTIFY that this certificate reflects the legal status of the real estate property as of one business day prior to the present date (Article 656-BL §2 of the CN).

The above is true and I certify.
Curitiba, April 24, 2026 - 9:21:59 a.m.

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FUNREJUS: 12.79
FUNDEP: 2.55
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(Digitally signed)
LUIS FLÁVIO FIDELIS GONÇALVES - Registrar
GILMARA FERREIRA MELO - DEPUTY
RENATO VINICIUS LAU - DEPUTY
TAYRINI VITALI FELISBERTO FROL - CLERK
TATIANE ALINE DA SILVA MANFRA - CLERK
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*Legend:
CNIB: National Registry of Property Unavailability
CNS: Civil Registry Number
FGTS: Guarantee Fund for Length of Service
INSS: National Institute of Social Security
SFH: Housing Financial System
TJPR: Court of Justice of the State of Paraná

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I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ Date: August 3, 2026.

1º REGISTRO DE IMÓVEIS
Curitiba - Paraná
Rua Padre Anchieta, 2050 - 5º Andar
Fone (41) 3022-1117
TITULAR: LUIS FLAVIO FIDELIS GONÇALVES
C.P.F 039.175.479.37

REGISTRO GERAL

FICHA 01

RUBRICA

MATRÍCULA Nº 66.440

CNM 083253.2.0066440-80

IMÓVEL - **Vaga de garagem sob nº 36 (trinta e seis)**, coberta, localizada no 2° subsolo do **"EDIFÍCIO JARDIM CHAMPAGNAT"**, **situado na Rua Coronel Joaquim Ignácio Taborda Ribas nº 727**, situado no bairro Bigorrilho, nesta Capital, com capacidade para 1 (um) veículo de passeio de porte pequeno, sem necessidade de manobrista, com a área construída privativa de 12,0000m2, área construída de uso comum de 11,5500m2, área construída total de 23,5500m2, quota do terreno total de 2,0000m2 e a fração ideal do solo de 0,001827 que lhe corresponde nas partes comuns, construído no lote de terreno E-15/E-16-A, resultante da subdivisão do lote de terreno E-15/E-16 da Planta João Burda, com a indicação fiscal nº 15-014-032.000-8, de frente para a Rua Coronel Joaquim Ignácio Taborda Ribas.-

PROPRIETÁRIA - **SCHABATURA ENGENHARIA E CONSTRUÇÕES CIVIS LTDA** (CNPJ nº 79.597.639/0001-56), pessoa jurídica de direito privado, com sede na Avenida João Gualberto nº 1673, conjunto 37, Alto da Glória, Curitiba-PR.-

REGISTRO ANTERIOR - R-10 da matrícula nº 44.418 do Registro Geral desta Serventia, datado de 30 de dezembro de 2015. A presente matrícula é aberta a requerimento, o qual fica arquivado digitalmente nesta Serventia sob nº 276.851 - (vk/ag) .-

Selo:F372J.9EqPp.ATsC7-hYsD9.ejYYw. Curitiba, 01 de outubro de 2021. Luis Flávio Fidelis Gonçalves, Oficial do Registro: Gilmara Ferreira Melo Substituta

AV-1-66.440 - (Prot. 276.851 de 27/08/2021 - TRANSPORTE DE REGIME DE AFETAÇÃO) - Procedo à presente averbação como transporte do ato praticado na AV-12 da matrícula nº 44.418 do Registro Geral desta Serventia, que consta o seguinte: o imóvel sobre o qual foi construído o Edifício Jardim Champagnat, foi submetido ao regime de afetação, conforme previsto nos Artigos 31-A e seguintes da Lei nº 4.591/64. (Emolumentos: 60 VRC = R$13,02 - Funrejus: R$3,25 - FUNDEP: R$0,65 - ISS: R$0,52 - vk/ag - Selo:F372J.9EqPp.ATHC7-hYnEK.ejYYr). Curitiba, 01 de outubro de 2021. Luis Flávio Fidelis Gonçalves, Oficial do Registro: Gilmara Ferreira Melo Substituta

AV-2-66.440 - (Prot. 276.851 de 27/08/2021 - CONVENÇÃO DE CONDOMÍNIO) - Foi registrada nesta Serventia sob nº 6.136 no livro de Registro Auxiliar, a convenção de condomínio do **"EDIFÍCIO JARDIM CHAMPAGNAT"**. (Emolumentos e Funrejus: isento - vk/ag). Curitiba, 01 de outubro de 2021. Luis Flávio Fidelis Gonçalves, Oficial do Registro: Gilmara Ferreira Melo Substituta

AV-3-66.440 - (Prot. 280.698 de 16/12/2021 - INDICAÇÃO FISCAL) - Conforme Certidão do Cadastro Imobiliário expedida pelo Município de Curitiba (arquivada digitalmente sob nº 280.698), procedo à presente averbação para consignar que o imóvel objeto desta matrícula tem a indicação fiscal nº 15-014-032.101-2. (Emolumentos: 315 VRC = R$68,36 - Funrejus: R$17,09 - FUNDEP: R$3,41 - ISS: R$2,73 - sa/kr - Selo: F372V.9wqP3.PjhyO-G5pUO.MIcRA). Curitiba, 27 de dezembro de 2021. Luis

MAT. Nº 66.440

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AV-4-66.440 - (Prot. 280.698 de 16/12/2021 - CANCELAMENTO DE REGIME DE AFETAÇÃO) - Em vista de autorização contida no instrumento particular objeto de registro a ser praticado no R-5 desta matrícula, do qual uma via fica arquivada digitalmente sob nº 280.698, procedo à presente averbação para consignar o **cancelamento do regime de afetação objeto da AV-1 desta matrícula**. (Emolumentos: 315 VRC = R$68,36 - Funrejus: R$17,09 - FUNDEP: R$3,41 - ISS: R$2,73 - ag/kr - Selo:F372V.9wqP3. PjtyO-G5dW3.MIcRV). Curitiba, 27 de dezembro de 2021. Luis Flávio Fidelis Gonçalves, Oficial do Registro: Gilmara Ferreira Melo Substituta

R-5-66.440 - (Prot. 280.698 de 16/12/2021 - COMPRA E VENDA) - Por instrumento particular de compra e venda nº 916.500.341 - SFH - firmado em Chapecó-SC, em 01 de novembro de 2021, do qual uma via fica arquivada digitalmente sob nº 280.698, **SCHABATURA ENGENHARIA E CONSTRUÇÕES CIVIS LTDA** (CNPJ nº 79.597.639/0001-56), pessoa jurídica de direito privado, com sede na Avenida João Gualberto nº 1673, conjunto 37, Alto da Glória, Curitiba-PR, **vendeu** o imóvel que consta desta matrícula para **JULIO CONFORTO** (CNH nº 06120230512-DETRAN/PR e CPF/MF nº 079.523.439-20), brasileiro, solteiro, maior, engenheiro, o qual convive em união estável, sob o regime da separação de bens com DIESSICA DE AZEVEDO (Ident. nº 52155757-SESP/SC e CPF/MF nº 065.335.259-05), brasileira, solteira, maior, serventuária de justiça, residente (s) e domiciliado (a/s) na Rua Padre Anchieta nº 1965, apto 304N, Bigorrilho, Curitiba-PR, pelo valor de R$47.500,00 (quarenta e sete mil e quinhentos reais), que acrescido de R$454.316,11 correspondente ao valor de outro imóvel objeto de aquisição no mesmo título totaliza a importância de R$501.816,11, devidamente quitado, do qual R$30.000,00 foram pagos com recursos próprios, R$78.435,14 com recursos da conta vinculada do FGTS e o restante por meio de financiamento conforme R-6 desta matrícula. Foi apresentada e fica arquivada digitalmente sob nº 280.698 a certidão conjunta da Receita Federal e INSS em nome da vendedora, devidamente validada. (Consultado na CNIB - Código HASH: 8267. dafc. 0590. f64c. 714d. 6501. ae2d. 9342. ea25. f65bpara CNPJ nº 79.597.639/0001-56; 8483. bee7. 0bf8. a6bd. 62ec. 0458. 62f3. 1d35. e767. 705c para CPF nº 079.523.439-20 - ITBI - Aval. R$501.816,11 juntamente com outro - Emolumentos: 60 VRC = R$13,02 - Funrejus: R$95,00 - FUNDEP: R$0,65 - ISS: R$0,52 - emitida a DOI - sa/kr - Selo:F372J.9wqP3.PjbyO-G5Q38.ejcRT). Curitiba, 27 de dezembro de 2021. Luis Flávio Fidelis Gonçalves, Oficial do Registro: Gilmara Ferreira Melo Substituta

R-6-66.440 - (Prot. 280.698 de 16/12/2021 - ALIENAÇÃO FIDUCIÁRIA) - Pelo mesmo instrumento mencionado no R-5 desta matrícula, **JULIO CONFORTO**, já identificado e qualificado, **alienou fiduciariamente**, além do imóvel objeto da matrícula nº 66.429 do Registro Geral desta Serventia, o imóvel que consta desta matrícula para **BANCO DO BRASIL S. A.** (CNPJ nº 00.000.000/0001-91), pessoa jurídica de direito privado, com sede em Brasilia-DF, por sua agência CHAMPAGNAT-PR, prefixo 1519-9, para garantir um financiamento no valor de R$396.567,18 (trezentos e noventa e seis mil, quinhentos e sessenta e sete reais e dezoito centavos), pagável em 361 (trezentos e sessenta e um) parcelas, vencendo-se a primeira prestação no dia 15 de dezembro de 2021 e a última no dia 15 de novembro de 2051, aos juros as taxas no período de carência e amortização: nominal de 8,316% ao ano, efetiva de 8,64% ao ano, nominal de 0,693% ao mês e as taxas para manutenção de salário do

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02 / Mat. 66.440

CNM 083253.2.0066440-80

CONTINUAÇÃO

BB: nominal de 8,172% ao ano, efetiva de 8,49% ao ano, nominal de 0,681% ao mês. Valor de avaliação do imóvel, para fins de leilão extrajudicial R$47.500,00. PRAZO DE CARÊNCIA: 30 dias. Demais cláusulas, condições e obrigações constantes do título. (Consultado na CNIB - Código HASH: f6f2. e821. f5ad. 4b0f. 4275. 1c4e. 4181. a102. 6be6. 9e65 para CNPJ nº 00.000.000/0001-91 - Emolumentos: 1078 VRC = R$233,93 - 1ª aquisição pelo SFH - Funrejus: isento - Art. 3º, alínea b, item 11 da Lei nº 12216/98 - FUNDEP: R$11,69 - ISS: R$9,35 - sa/xr - Selo:F372V.9wqP3.PjWyO-G5Y5L.MIcRX). Curitiba, 27 de dezembro de 2021. Luis Flávio Fidelis Gonçalves, Oficial do Registro: Gilmara Ferreira Melo

CERTIFICO, que a presente fotocópia é reprodução fiel da matrícula nº 66.440 do Registro Geral desta Serventia.
CERTIFICO finalmente, que esta certidão reflete a realidade jurídica do imóvel de um dia útil anterior à presente data (Art.656-BL §2º do CN).

O referido é verdade e dou fé.
Curitiba, 24 de abril de 2026 - 09:21:59

Busca e Certidão de inteiro teor : 51,00
SELO (FUNARPEN): 11,75
FUNREJUS: 12,79
FUNDEP: 2,55
ISSQN: 2,04
TOTAL: 80,13
7494
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C.II - Second Prong: Evidence of Original Contributions

Technical Responsibility Annotation - ART
Law No. 6.496, of December 7, 1977

CREA-PR

Regional Council of Engineering and Agronomy of Paraná

ART of Construction or Service
1720234768839

1. Technical Responsible

JULIO CONFORTO
Professional title:
ELECTRICAL ENGINEER

RNP (National Registration of the Professional): **1713711230**
Registration: **PR-141994/D**

2. Contract Data

Contracting Party: **COURT OF JUSTICE OF THE STATE OF PARANÁ**
CNPJ: **77.821.841/0001-94**
R DA GLORIA, 362
CENTRO CIVICO - CURITIBA/PARANÁ 80030-060

Contract: (No number)
Signed on: 08/01/2023
Amount: R$ 2,500.00
Type of Hirer: Legal Entity (Public Law) brazilian

3. Work/Service Details

R DA GLORIA, 362
CENTRO CIVICO - CURITIBA/PARANÁ 80030-060
Start Date: 08/01/2023 **Expected End Date:** 09/13/2023
Purpose: Judicial

4. Technical Activity

	Quantity	Unit
[Technical report] of electrical equipment	3,00	UNITY

After completing the technical activities, the professional must proceed with the closure of this ART

5. Observations

Technical report in a judicial process performed for 3 (three) consumer units

7. Signatures

Document electronically signed by JULIO CONFORTO, Crea-PR PR-141994/D, in the professional's restricted area using a login and password, on the date 09/13/2023 at 09:45 AM.

COURT OF JUSTICE OF THE STATE OF PARANÁ - CNPJ:77.821.841/0001-94

8. Information

- The ART is only valid when paid, according to the data in the footer-version of the system, or by verification on the website www.crea-pr.org.br.
- The authenticity of this document can be verified on the website www.crea-pr.org.br or www.confea.org.br
- The custody of the signed copy of the ART shall be the responsibility of both the professional and the contracting party, aiming to document the contractual relationship.

Access our website www.crea-pr.org.br
Call center: 0800 041 0067

CREA-PR Regional Council of Engineering and Agronomy of Paraná

ART Amount: R$ 96.62 **Registered on: 09/13/2023** **Paid Amount: R$ 96.62** **Our Number: 2410101720234768839**

Digitally signed document, pursuant to Provisional Measure (MP) No. 2.200-2/2001, Law No. 11.419/2006. Projudi resolution, of the COURT OF JUSTICE OF THE STATE OF PARANÁ (TJPR)/OE Validation of this document at https://projudi.tjpr.jus.br/projudi/ - Identifier: PJY8C AY6HH 4TFGX 2QHKA

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: August 27, 2026.

Anotação de Responsabilidade Técnica - ART
Lei nº 6.496, de 7 de dezembro de 1977

CREA-PR

Conselho Regional de Engenharia e Agronomia do Paraná

ART de Obra ou Serviço
1720234768839

1. Responsável Técnico

JULIO CONFORTO

Título profissional:
ENGENHEIRO ELETRICISTA

RNP: **1713711230**
Carteira: **PR-141994/D**

2. Dados do Contrato

Contratante: **TRIBUNAL DE JUSTIÇA DO ESTADO DO PARANÁ** CNPJ: **77.821.841/0001-94**

R DA GLORIA, 362
CENTRO CIVICO - CURITIBA/PR 80030-060

Contrato: (Sem número) Celebrado em: 01/08/2023
Valor: R$ 2.500,00 Tipo de contratante: Pessoa Jurídica (Direito Público) brasileira

3. Dados da Obra/Serviço

R DA GLORIA, 362
CENTRO CIVICO - CURITIBA/PR 80030-060

Data de Início: 01/08/2023 **Previsão de término:** 13/09/2023

Finalidade: Judicial

4. Atividade Técnica

	Quantidade	Unidade
[Laudo] *de equipamentos elétricos*	3,00	UNID

Após a conclusão das atividades técnicas o profissional deverá proceder a baixa desta ART

5. Observações

Laudo em processo judicial realizado para 3 (três) unidades consumidoras

7. Assinaturas

Documento assinado eletronicamente por JULIO CONFORTO, registro Crea-PR PR-141994/D, na área restrita do profissional com uso de login e senha, na data 13/09/2023 e hora 09h45.

TRIBUNAL DE JUSTIÇA DO ESTADO DO PARANÁ - CNPJ: 77.821.841/0001-94

8. Informações

- A ART é válida somente quando quitada, conforme informações no rodapé deste formulário ou conferência no site www.crea-pr.org.br.

- A autenticidade deste documento pode ser verificada no site www.crea-pr.org.br ou www.confea.org.br

- A guarda da via assinada da ART será de responsabilidade do profissional e do contratante com o objetivo de documentar o vínculo contratual.

Acesso nosso site www.crea-pr.org.br
Central de atendimento: 0800 041 0067

CREA-PR Conselho Regional de Engenharia e Agronomia do Paraná

Valor da ART: R$ 96,62 **Registrada em : 13/09/2023** **Valor Pago: R$ 96,62** **Nosso número: 2410101720234768839**

Documento assinado digitalmente, conforme MP nº 2.200-2/2001, Lei nº 11.419/2006, resolução do Projudi, do TJPR/OE
Validação deste em https://projudi.tjpr.jus.br/projudi/ - Identificador: PJY8C AY6HH 4TFGX 2QHKA

C.II - Second Prong: Licenses

CREA-PR
Regional Council of Engineering and Agronomy of the State of Paraná

Certificate of Professional Registration and Clearance of Debts

The Regional Council of Engineering and Agronomy of the State of Paraná (CREA-PR) hereby certifies that the professional identified below is duly registered pursuant to Federal Law No. 5,194/66, authorizing him to practice his profession within the State of Paraná, limited to the professional qualifications recorded in his registration.

Certificate No.: 23748/2026 Valid Until: 08/29/2026

Civil Name:
JULIO CONFORTO

CPF:
079.523.439-20

CREA-PR Registration No.:
PR-141994/D

Identity Document No.:
102402014

National Registration No.:
1713711230

Issuing Authority:
SESP/PR

Registered Since:
10/09/2014

Filiation:
Father: JOÃO PEDRO CONFORTO
Mother: FÁTIMA CARRARO CONFORTO

Place of Birth:
Campo Mourão/PR

The professional's 2026 annual registration fee has been paid in full.
No outstanding debts related to inspection proceedings and/or outstanding public debt exist as of this date.

PROFESSIONAL QUALIFICATIONS

Degree: ELECTRICAL ENGINEER

Professional Entry Date:10/09/2014

FEDERAL UNIVERSITY OF TECHNOLOGY – PARANÁ

Degree Program: ELECTRICAL ENGINEERING

Degree Conferred: 10/02/2014 - Diploma Issued: 10/22/2014

Status: Active

Professional Qualifications:

CONFEA Resolution No. 218/1973, Article 9, dated 10/29/1973.

CONFEA Resolution No. 218/1973, Article 8, dated 10/29/1973.

Purpose: Registration

We hereby certify that should any of the information contained in this document be altered, this Certificate shall become invalid for all legal purposes.

The authenticity of this Certificate may be verified on the CREA-PR website using Protocol No. 76103/2026. It should be noted that no engineering services or works may be performed without the effective participation of the responsible technical professional(s).

Issued electronically on 03/02/2026, at 11:54:54 PM.

This document does not require a signature pursuant to Service Instruction No. 03/2021.

Forgery of this document constitutes a criminal offense under the Brazilian Penal Code and subjects the offender to the applicable criminal penalties.

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: August 3, 2026

CREA-PR
Conselho Regional de Engenharia e Agronomia do Paraná

Certidão de Registro Profissional e Negativa de Débitos

O Conselho Regional de Engenharia e Agronomia do Paraná-CREA-PR, certifica que o(a) profissional abaixo encontra-se regularmente registrado(a) nos termos da Lei Federal nº 5.194/66 possibilitando-o(a) a exercer sua profissão no Estado do Paraná, circunscrita à(s) atribuição(ões) constantes de seu registro.

Certidão nº: 23748/2026 — Validade: 29/08/2026

Nome civil:
JULIO CONFORTO

CPF:
079.523.439-20

Carteira - CREA-PR Nº:
PR-141994/D

Documento de Identidade:
102402014

Registro Nacional:
1713711230

Órgão emissor:
SESP/PR

Registrado(a) desde:
09/10/2014

Filiação:
PAI: JOÃO PEDRO CONFORTO
MÃE: FÁTIMA CARRARO CONFORTO

Naturalidade:
CAMPO MOURAO/PR

Encontra-se quite com a anuidade do exercício 2026.
Não possui débito(s) referente a processo(s) de fiscalização e/ou dívida ativa até a presente data.

TÍTULOS

Título: ENGENHEIRO ELETRICISTA

Data da anotação do título profissional: 09/10/2014

UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANA

Curso: ENGENHARIA ELÉTRICA

Data da Colação de Grau: 02/10/2014 - Diplomação: 22/10/2014

Situação: Regular

Atribuições profissionais:

Resolução do Confea N.º 218/1973 - Art. 9º de 29/06/1973

Resolução do Confea N.º 218/1973 - Art. 8º de 29/06/1973

Para fins de: Cadastro

Certificamos que caso ocorra(m) alteração(ões) nos elementos contidos neste documento, esta Certidão perderá sua validade para todos os efeitos.
A autenticidade desta certidão poderá ser confirmada na página do CREA-PR (http://www.crea-pr.org.br), através do protocolo n.º 76103/2026, ressaltando a impossibilidade de execução de quaisquer serviços ou obras sem a participação efetiva de seu(s) responsável(eis) técnico(s).
Emitida via Internet em 02/03/2026 23:54:54

Dispensa-se a assinatura neste documento, conforme Instrução de Serviço Nº 03/2021.
A falsificação deste documento constitui-se em crime previsto no Código Penal Brasileiro, sujeitando o autor à respectiva ação penal.

FEDERAL PUBLIC SERVICE

REGIONAL COUNCIL OF ENGINEERING AND AGRONOMY
OF THE STATE OF SÃO PAULO - CREA-SP

PROFESSIONAL REGISTRATION AND RECORD CERTIFICATE

Certificate No.: CI - 3883853/2026

WE HEREBY CERTIFY, at the request of the interested party and for all appropriate legal purposes, upon examination of the records of this Council, the professional identified below is duly registered with CREA-SP pursuant to Federal Law No. 5,194, of December 24, 1966, in accordance with the following information:

Name: JULIO CONFORTO

CREA-SP Registration No.: 5071228820 **Issued on:** 04/28/2023
National Professional Registration No.: 1713711230 (Date of registration with CREA-SP)

CPF: 079.523.439-20

Identity Card: 10.240.201-4 SSP/SP

Date of Birth: 07/26/1991

Address: Rua ARISTIDES PINTO SOARES, No. 332
PARQUE BANDEIRANTES
19026-220 – PRESIDENTE PRUDENTE - SP

Degree, Program, and Scope of Practice:

Degree: Electrical Engineer

Program: Electrical Engineering

Scope of Practice:

Pursuant to Articles 8 and 9 of CONFEA Resolution No. 218, dated June 29, 1973.

By: Federal Technological University of Paraná

Academic Year: 2014 **Graduation Date:** 10/02/2014

This Certificate also serves as a replacement for the Professional Record Book, which was discontinued pursuant to CONFEA Resolution No. 1007/2003, and shall become invalid if any of the information contained herein is subsequently modified.

This Certificate refers exclusively to the professional registration information and official records maintained by this Council and does not preclude the existence of any outstanding debts or violations that may subsequently be identified in the name of the above-mentioned professional.

Forgery of this document constitutes a criminal offense under the Brazilian Penal Code, subjecting the offender to the applicable criminal prosecution and/or disciplinary proceedings.

The authenticity of this Certificate may be verified on the CREA-SP website: www.creasp.org.br

Certificate Verification Code: 325afa04-caab-4488-a123-c80590dc4dc5

Registration status extracted on: 03/11/2026, at 7:24:30 PM

Issued through the Online Services system.

FEDERAL PUBLIC SERVICE

REGIONAL COUNCIL OF ENGINEERING AND AGRONOMY
OF THE STATE OF SÃO PAULO - CREA-SP

PROFESSIONAL REGISTRATION AND RECORD CERTIFICATE

For questions, please call 0800-0171811, visit www.creasp.org.br and select Customer Service / Contact Us, or visit the UGI PRESIDENTE PRUDENTE office, located at: Rua EUFRÁSIO TOLEDO, No. 72 JARDIM MARUPIARA, PRESIDENTE PRUDENTE - SP, ZIP Code: 19060-100, or visit the nearest service office.

SÃO PAULO, March 11, 2026

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: August 3, 2026

SERVIÇO PÚBLICO FEDERAL

CONSELHO REGIONAL DE ENGENHARIA E AGRONOMIA
DO ESTADO DE SÃO PAULO - CREA-SP

CERTIDÃO DE REGISTRO PROFISSIONAL E ANOTAÇÕES

Número da Certidão: *CI - 3883853/2026*

CERTIFICAMOS, a requerimento da parte interessada e para os devidos fins que, fazendo rever os arquivos deste Conselho, foi verificado constar que o profissional abaixo mencionado se encontra registrado neste CREA-SP, nos termos da Lei nr. 5.194, de 24 dezembro de 1966, conforme dados a seguir:

Nome: JULIO CONFORTO

Número de registro no CREA-SP: 5071228820 **Expedido em:** 28/04/2023
(Data de registro no CREA-SP)
Registro Nacional do Profissional: 1713711230

CPF: 079.523.439-20

RG - REGISTRO GERAL: 10.240.201-4 SSP/SP

Data de Nascimento: 26/07/1991

Endereço: Rua ARISTIDES PINTO SOARES, 332
PARQUE BANDEIRANTES
19026220 - PRESIDENTE PRUDENTE - SP

Título, curso e atribuição:

Título: ENGENHEIRO ELETRICISTA
Curso: ENGENHARIA ELÉTRICA
Atribuição:
Dos artigos 8º e 9º da Resolução 218, de 29 de junho de 1973, do CONFEA.
Pelo(a): UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ
Ano Letivo: 2014 **Data de Colação de Grau:** 02/10/2014

A presente certidão possui também a finalidade de substituição da carteira profissional de anotações, extinta pela Resolução 1007, de 2003, do Confea, e perderá a validade caso ocorram quaisquer alterações em seus dados acima descritos.

Esta certidão refere-se a dados de registro e anotações constantes do cadastro do profissional, não invalidando qualquer débito ou infração que posteriormente venham ser apurados em nome do(a) profissional acima.

A falsificação deste documento constitui-se em crime previsto no Código Penal Brasileiro, sujeitando o(a) autor(a) à competente ação penal e/ou processo ético respectivo.

A autenticidade desta certidão deverá ser verificada no site: www.creasp.org.br

Código de controle da certidão: 325afa04-caab-4488-a123-c80590dc4dc5

Situação cadastral extraída em: 11/03/2026 19:24:30

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CERTIDÃO DE REGISTRO PROFISSIONAL E ANOTAÇÕES

Em caso de dúvidas, consulte 0800-0171811, ou o site www.creasp.org.br, link Atendimento/Fale Conosco ou ainda através da unidade UGI PRESIDENTE PRUDENTE, situada à Rua: EUFRÁSIO TOLEDO, 72, , JARDIM MARUPIARA, PRESIDENTE PRUDENTE-SP, CEP: 19060-100, ou procure a unidade de atendimento mais próxima.

SÃO PAULO, 11 de Março de 2026

FEDERAL PUBLIC SERVICE
REGIONAL COUNCIL OF ENGINEERING AND AGRONOMY OF THE STATE OF SANTA CATARINA (CREA-SC)

PROFESSIONAL ENDORSEMENT CERTIFICATE

1. Personal Information

Name: JULIO CONFORTO		**CPF: 079.523.439-20**
CREA-SC Verification No.: 198826-6	National Registration No.: 1713711230	Date of Verification: 04/03/2023
CREA-PR Registration No.: PR-141994/D	Registration Date: 10/09/2014	

2. Education

Date: 10/02/2014 Degree: Electrical Engineer

Educational Institution: Federal Technological University of Paraná (formerly the Federal Center for Technological Education of Paraná)

3. Specializations

No specializations are recorded.

4. Professional Qualifications

CONFEA Resolution No. 218/1973 – Article 8 - CONFEA Resolution No. 218/1973 – Article 9

5. Certificate

We hereby certify that the above-named professional is duly registered with this Regional Council pursuant to Federal Law No. 5,194, of December 24, 1966.

This certificate shall become invalid if any subsequent changes are made to the registration information contained herein, such that it no longer reflects the correct or current registration or endorsement status.

Issued on 03/11/2026, at 7:19:44 PM, and valid through 03/31/2027.

6. Annual Fee Details

ANNUAL FEE – 2026 - INSTALLMENT: 1 of 1 - State of Payment: São Paulo (SP) - PAID ON: 01/05/2026

ANNUAL FEE – 2025 - INSTALLMENT: 1 of 1 - State of Payment: Paraná (PR) - PAID ON: 01/16/2025

ANNUAL FEE – 2024 - INSTALLMENT: 1 of 1 - State of Payment: - PAID ON: 03/11/2026

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: August 3, 2026

SERVIÇO PÚBLICO FEDERAL
CONSELHO REGIONAL DE ENGENHARIA E AGRONOMIA DE SANTA CATARINA – CREA-SC

CERTIDÃO DE VISTO PROFISSIONAL

1. Dados pessoais

Nome: JULIO CONFORTO **CPF: 079.523.439-20**

Visto no CREA-SC: 198826-6 Registro nacional: 1713711230 Data do Visto: 03/04/2023

Registro no CREA-PR: PR-141994/D Data do registro: 09/10/2014

2. Formações

Data: 02/10/2014 Título: Engenheiro Eletricista

Instituição de ensino: Universidade Tecnológica Federal do Paraná (ex Centro Federal de Educação Tecnológica do Paraná)

3. Especializações

Não constam especializações.

4. Atribuições

Resolução do Confea N.º 218/1973 - Art. 8º Resolução do Confea N.º 218/1973 - Art. 9º

5. Certidão

Certificamos que o(a) profissional, acima citado(a), encontra-se devidamente registrado(a) junto a este Conselho Regional, nos termos da Lei Federal nº 5.194, de 24 de dezembro de 1966.

Este documento perderá a validade, caso ocorra qualquer modificação posterior dos elementos cadastrais nele contido e desde que não represente a situação correta ou atualizada do registro ou visto.

Emitida em 11/03/2026 19:19:44 válida até 31/03/2027.

6. Detalhamento das anuidades

ANUIDADE: 2026: - PARCELA: 1/1 - UF de recebimento:SP - PAGA em 05/01/2026

ANUIDADE: 2025: - PARCELA: 1/1 - UF de recebimento:PR - PAGA em 16/01/2025

ANUIDADE: 2024: - PARCELA: 1/1 - UF de recebimento: - PAGA em 11/03/2026

C.II - Second Prong: Membership

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2026

JULIO CONFORTO

Member # 101117386
Southeastern Michigan Section

IEEE Member for 2 years
Valid through 31 December 2026

Mary Ellen Randall
2026 IEEE President

IEEE

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C.II - Second Prong: Letters of Support

04/07/2026

To Whom It May Concern,

My name is Tiago Ioniski, I hold a degree in Electrical and Electronic Engineering from the University of Passo Fundo. Currently, I work at ELOMED Industria e Comércio de Equipamentos Eletrônicos LTDA, an organization specialized in the manufacturing, commercialization, and maintenance of electro-electronic equipment, with a strong presence in the provision of clinical engineering services. In the exercise of my duties, I am responsible for managing the Clinical Engineering department at Sao Vicente de Paulo Hospital in Passo Fundo, where I directly monitor the operation and maintenance of highly complex medical-hospital equipment, including systems supplied by multinational manufacturers, such as Siemens Healthineers.

I had the opportunity to work directly with Mr. Julio Conforto between September 2015 and January 2019, a period during which he served as a Customer Service Engineer affiliated with Siemens Healthineers. At that time, I was responsible for opening and monitoring all technical service calls related to the hospital's magnetic resonance imaging equipment, with Mr. Conforto being the professional designated to address these demands. Our professional relationship was built upon numerous technical interactions aimed at resolving critical failures in high-value, highly complex equipment.

Throughout this period, I was able to consistently observe Mr. Conforto's technical capability in situations that demanded precision, agility, and decision-making under pressure. On one specific occasion, following the preventive maintenance of a Magnetom Skyra system, a critical database failure occurred, resulting in software corruption. Considering that the hospital had a fully booked schedule for the following day, including patients coming from several cities across the region, any disruption would cause a significant impact. Faced with this scenario, Mr. Conforto dedicated himself throughout the entire night to restoring the system's operation. As a result, the equipment was fully operational the next morning, ensuring the continuity of medical care and preventing losses for both the institution and the patients.

On another relevant occasion, our team identified an intermittent failure whose origin appeared to be related to the system itself. Mr. Conforto conducted a detailed investigation, gathering information from the clinical team, reproducing the issue in a controlled environment, and technically documenting the entire process.

Based on this analysis, he formalized a report with Siemens through a Product Potential Issue process. Following an internal evaluation, the company confirmed the existence of a fault in software version VE11C and implemented the correction in the subsequent version VE11E. This outcome evidences not only his analytical capability but also his contribution to the improvement of systems utilized on a broader scale.

These experiences demonstrate a professional who combines profound technical knowledge with a high sense of responsibility and analytical rigor. His ability to act in critical scenarios, identify root causes, and structure effective technical solutions sets him apart in the field of clinical engineering. Furthermore, his performance contributes directly to the reliability of equipment essential for medical diagnosis, which impacts the quality of services provided by healthcare institutions.

Based on my direct experience with Mr. Conforto, I can assert that he is a highly qualified professional. His consistent performance in complex situations and his ability to generate relevant technical results indicate a profile fully aligned with initiatives that demand precision, responsibility, and significant impact. Rather than contributing to a single employer, his work in clinical engineering applied to highly complex equipment has the potential to directly influence the operational efficiency of multiple healthcare institutions. By optimizing the operation of magnetic resonance imaging and computed tomography systems, reducing downtime, and implementing replicable technical improvements, Mr. Julio contributes to increasing diagnostic care capacity, reducing operational costs, and improving patient care on a regional scale. This type of impact, due to its technical and systemic nature, transcends isolated corporate interests and projects itself onto the quality and efficiency of the entire healthcare sector. For these reasons, I express my strong support for his professional career and for the contributions he will continue to offer in his field of expertise in the United States.

Sincerely,



Tiago Ianiski
ELOMED Indústria e Comércio de Equipamentos Eletrônicos LTDA
tiago@elomed.com.br
+55 54 99139-9498

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ Date: July 31, 2026.

07/04/2026

A quem possa interessar,

Me chamo Tiago Ianiski, sou graduado em Engenharia Elétrica e Eletrônica pela Universidade de Passo Fundo. Atualmente, atuo na empresa ELOMED Indústria e Comércio de Equipamentos Eletrônicos LTDA, organização especializada na fabricação, comercialização e manutenção de equipamentos eletroeletrônicos, com forte atuação na prestação de serviços de engenharia clínica. No exercício das minhas funções, sou responsável pela gestão do departamento de Engenharia Clínica do Hospital São Vicente de Paulo, em Passo Fundo, onde acompanho diretamente a operação e a manutenção de equipamentos médico-hospitalares de alta complexidade, incluindo sistemas fornecidos por fabricantes multinacionais, como a Siemens Healthineers.

Tive a oportunidade de trabalhar diretamente com o Sr. Julio Conforto entre setembro de 2015 e janeiro de 2019, período em que ele atuava como Engenheiro de Serviços ao Cliente vinculado à Siemens Healthineers. Naquela época, eu era responsável pela abertura e pelo acompanhamento de todos os chamados técnicos relacionados aos equipamentos de ressonância magnética do hospital, sendo o Sr. Conforto o profissional designado para atender a essas demandas. Nossa relação profissional foi construída a partir de inúmeras interações técnicas voltadas à resolução de falhas críticas em equipamentos de elevado valor e complexidade.

Ao longo desse período, pude observar, de forma consistente, a capacidade técnica do Sr. Conforto em situações que exigiam precisão, agilidade e tomada de decisão sob pressão. Em uma ocasião específica, após a manutenção preventiva de um equipamento Magnetom Skyra, ocorreu uma falha crítica no banco de dados que resultou na corrupção do software. Considerando que o hospital possuía a agenda completamente preenchida para o dia seguinte, incluindo pacientes provenientes de diversas cidades da região, qualquer interrupção causaria um impacto significativo. Diante desse cenário, o Sr. Conforto dedicou-se durante toda a madrugada a restabelecer o funcionamento do sistema. Como resultado, o equipamento encontrava-se plenamente operacional no dia seguinte, garantindo a continuidade dos atendimentos e evitando prejuízos tanto à instituição quanto aos pacientes.

Em outra situação relevante, nossa equipe identificou uma falha intermitente cuja origem parecia estar relacionada ao próprio sistema. O Sr. Conforto conduziu uma investigação detalhada, coletando informações junto à equipe clínica, reproduzindo o problema em ambiente controlado e documentando tecnicamente todo o processo.

Com base nessa análise, ele formalizou um relatório junto à Siemens por meio de um processo de Product Potential Issue. Após avaliação interna, a empresa confirmou a existência de uma falha na versão de software VE11C e implementou a correção na versão subsequente VE11E. Esse resultado evidencia não apenas sua capacidade analítica, mas também sua contribuição para a melhoria de sistemas utilizados em escala mais ampla.

Essas experiências demonstram um profissional que alia profundo conhecimento técnico a um elevado senso de responsabilidade e rigor analítico. Sua capacidade de atuar em cenários críticos, identificar causas raiz e estruturar soluções técnicas eficazes o diferencia na área de engenharia clínica. Além disso, sua atuação contribui diretamente para a confiabilidade de equipamentos essenciais ao diagnóstico médico, o que impacta a qualidade dos serviços prestados pelas instituições de saúde.

Com base na minha experiência direta com o Sr. Conforto, posso afirmar que se trata de um profissional altamente qualificado. Seu desempenho consistente em situações complexas e sua capacidade de gerar resultados técnicos relevantes indicam um perfil plenamente alinhado a iniciativas que exigem precisão, responsabilidade e impacto significativo. Mais do que contribuir para um único empregador, sua atuação em engenharia clínica aplicada a equipamentos de alta complexidade tem potencial para influenciar diretamente a eficiência operacional de múltiplas instituições de saúde. Ao otimizar o funcionamento de sistemas de ressonância magnética e de tomografia computadorizada, reduzir os tempos de inatividade e implementar melhorias técnicas replicáveis, o Sr. Julio contribui para aumentar a capacidade diagnóstica, reduzir custos operacionais e melhorar o atendimento ao paciente em escala regional. Esse tipo de impacto, por sua natureza técnica e sistêmica, transcende interesses empresariais isolados e se projeta sobre a qualidade e a eficiência do setor de saúde como um todo. Por essas razões, manifesto meu forte apoio à sua trajetória profissional e às contribuições que continuará a oferecer em sua área de atuação nos Estados Unidos.

Atenciosamente,

Tiago Ianiski
ELOMED Indústria e Comércio de Equipamentos Eletrônicos LTDA
tiago@elomed.com.br
+55 54 99139-9498

Contact

www.linkedin.com/in/tiago-ianiski-3a2595267 (LinkedIn)

Tiago Ianiski

Electronic engineer at ELOMED Indústria e Comércio de Equipamentos Eletrônicos LTDA
Passo Fundo, Rio Grande do Sul, Brazil

Work Experience

ELOMED Indústria e Comércio de Equipamentos Eletrônicos LTDA
Electronic Engineer

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ Date: August 4, 2026.

Contato

www.linkedin.com/in/tiago-ianiski-3a2595267 (LinkedIn)

Tiago Ianiski

Engenheiro eletrônico na ELOMED Indústria e Comércio de Equipamentos Eletrônicos LTDA
Passo Fundo, Rio Grande do Sul, Brasil

Experiência

ELOMED Indústria e Comércio de Equipamentos Eletrônicos LTDA
Engenheiro eletrônico

April 14, 2026
wilsonjsilva@utfpr.edu.br
+55 41 99899-4849

From: Wilson José da Silva
To: USCIS

Dear Officer,

I am writing this letter in support of Mr. Julio Conforto based on my firsthand experience as his academic advisor in the Graduate Studies Program in Electrical Engineering and Industrial Informatics (CPGEI) at the Federal Technological University of Paraná (UTFPR), where I serve as an Assistant Professor, researcher, and program coordinator, which holds a rating of excellence (score of 7 from CAPES).

I hold a Ph.D. in Materials Engineering and Science from the Federal University of Paraná (UFPR) and have more than two decades of experience conducting scientific research in the fields of materials, devices, and biomedical engineering. Throughout my career, I have published in high-impact international journals, including Nature Communications, Advanced Functional Materials, and Nano Letters, and have served as a CNPq Research Productivity Fellow and an ad hoc consultant. My work focuses on mentoring graduate researchers and developing applied research projects with significant scientific and technological impact.

I first met Mr. Conforto in late 2017 during the admission process for the CPGEI master's program. At that time, he was already working as a Customer Service Engineer at Siemens Healthineers, where he was responsible for maintaining magnetic resonance imaging (MRI) systems in hospitals throughout southern Brazil. His application came with a strong recommendation from Professor Marcos Banhetti Rabello Vallim, who had followed his undergraduate education, a recommendation that was later reinforced by Professor Fábio Kurt Schneider before the admissions committee.

Even before his formal admission to the program, Mr. Conforto demonstrated an exceptional level of academic commitment. Between 2016 and 2017, he attended courses as a non-degree student, traveling weekly between Chapecó and Curitiba (a commute of approximately 1,000 kilometers each week) while simultaneously maintaining his full-time professional responsibilities. In 2018, he enrolled as a special student, and in 2019, he became a regular master's student under my direct supervision, successfully completing his degree in 2020.

During this period, I closely supervised his research project entitled "Analysis of the Machining Quality of a Dental Milling Machine Applied to PMMA Material," which was presented at the 2020 Brazilian Congress of Biomedical Engineering (CBEB), one of the leading scientific conferences in the field in Brazil.

As part of this project, Mr. Conforto played a central role throughout every experimental and analytical phase. He planned and conducted the machining experiments involving polymethyl methacrylate (PMMA), a material widely used in the manufacture of dental prostheses and implants. He was also responsible for acquiring and processing images to evaluate surface quality using rigorous technical assessment methods. His work further included interpreting the experimental results and establishing correlations between machining parameters and the final quality of the manufactured material.

These activities have direct technical relevance to the field of biomedical engineering because the surface and structural quality of materials such as PMMA directly affects the

safety, durability, and effectiveness of medical devices that are widely used in clinical practice. Mr. Conforto's research advanced the understanding of biomaterial manufacturing processes, particularly regarding the optimization of machining parameters for medical applications.

In addition to presenting his work at CBEB, Mr. Conforto also contributed as a co-author to two other scientific publications produced by our research group during his master's studies, strengthening CPGEI's academic output and increasing the scientific visibility of our research in biomaterials and engineering applied to healthcare.

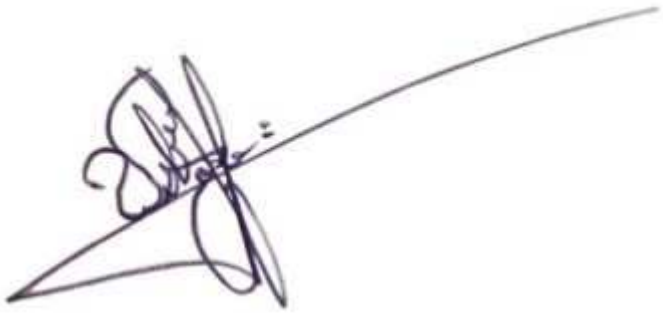
It is worth emphasizing that these accomplishments were achieved during the COVID-19 pandemic, a particularly challenging period that clearly demonstrated his adaptability, resilience, and ability to maintain rigorous scientific standards under adverse circumstances.

Another distinguishing characteristic of Mr. Conforto is his exceptional ability to integrate professional practice with academic research. Throughout his master's studies, he remained employed at Siemens Healthineers, working directly with highly sophisticated medical equipment in hospital environments, often under critical conditions. This practical experience gave his academic work a highly applied perspective, allowing his analyses and research contributions to be directly informed by real-world challenges in the healthcare sector.

From a technical standpoint, Mr. Conforto possesses a strong foundation in electrical and biomedical engineering, with expertise in instrumentation, signal processing, and experimental analysis. He demonstrates methodological rigor, the ability to address multidisciplinary challenges, and the capacity to translate complex technical problems into structured, evidence-based solutions. His scientific contributions and professional experience reflect a rare combination of skills, particularly at the intersection of engineering, materials science, and medical applications.

Based on my experience supervising both his academic and professional development, I can state that Mr. Conforto possesses the technical and scientific qualifications necessary to make meaningful contributions to the advancement of healthcare technologies, particularly in areas involving highly complex medical equipment and processes that directly affect diagnostic quality and clinical care.

I remain available to provide any further information that may be required.



Wilson José da Silva
Federal Technological University of Paraná

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: August 4, 2026

14 de abril de 2026
wilsonjsilva@utfpr.edu.br
+55 41 99899-4849

De: Wilson José da Silva
Para: USCIS

Prezado(a) Oficial,

Escrevo esta carta em apoio ao Sr. Julio Conforto, com base em minha experiência direta como seu orientador no Programa de Pós-Graduação em Engenharia Elétrica e Informática Industrial (CPGEI) da Universidade Tecnológica Federal do Paraná (UTFPR), instituição na qual atuo como professor adjunto, pesquisador e coordenador de programa com conceito de excelência (nota 7 da CAPES).

Sou Doutor em Engenharia e Ciência dos Materiais pela Universidade Federal do Paraná (UFPR), com mais de duas décadas de atuação em pesquisa científica nas áreas de materiais, dispositivos e engenharia biomédica. Ao longo da minha carreira, tenho publicado em periódicos de alto impacto internacional, como Nature Communications, Advanced Functional Materials e Nano Letters, além de atuar como bolsista de produtividade do CNPq e como consultor ad hoc. Minha atuação envolve a orientação de pesquisadores em formação e o desenvolvimento de projetos aplicados com impacto científico e tecnológico.

Conheci o Sr. Conforto no final de 2017, durante o processo seletivo para o mestrado no CPGEI. À época, ele já atuava como engenheiro de serviços ao cliente na Siemens Healthineers, sendo responsável pela manutenção de sistemas de ressonância magnética em hospitais da região Sul do Brasil. Sua candidatura já havia sido fortemente recomendada pelo Professor Marcos Banhetti Rabello Vallim, que acompanhou sua formação de graduação, recomendação posteriormente compartilhada pelo Professor Fábio Kurt Schneider com a banca avaliadora.

Antes mesmo de seu ingresso formal no programa, o Sr. Conforto já demonstrava um nível excepcional de comprometimento acadêmico. Entre 2016 e 2017, frequentou disciplinas como aluno externo, deslocando-se semanalmente entre Chapecó e Curitiba (um percurso de aproximadamente 1.000 km por semana), conciliando essa rotina com sua atuação profissional em tempo integral. Em 2018 ingressou como aluno especial e, em 2019, tornou-se aluno regular sob minha orientação direta, concluindo seu mestrado em 2020.

Durante esse período, acompanhei de perto o desenvolvimento de seu projeto de pesquisa intitulado “Análise da Qualidade de Usinagem da Fresadora Odontológica Aplicada ao Material PMMA”, trabalho apresentado no Congresso Brasileiro de Engenharia Biomédica (CBEB) em 2020, um dos principais fóruns científicos da área no Brasil.

No contexto desse projeto, o Sr. Conforto desempenhou um papel central em todas as etapas experimentais e analíticas. Ele foi responsável por planejar e executar os experimentos de usinagem do PMMA, material amplamente utilizado na fabricação de próteses e implantes odontológicos. Além disso, realizou a aquisição e o processamento de imagens para análise da qualidade superficial, aplicando métodos rigorosos de avaliação técnica. Sua atuação incluiu ainda a interpretação dos resultados e o estabelecimento de correlações entre os parâmetros de usinagem e a qualidade final do material produzido.

Essas atividades têm relevância técnica direta para a área de engenharia biomédica, uma vez que a qualidade superficial e estrutural de materiais como o PMMA impacta diretamente a segurança, a

durabilidade e a eficácia de dispositivos médicos utilizados em larga escala. O trabalho desenvolvido pelo Sr. Conforto contribuiu para o avanço do conhecimento sobre processos de fabricação de biomateriais, especialmente quanto à otimização de parâmetros de usinagem para aplicações médicas.

Além da apresentação no CBEB, o Sr. Conforto também contribuiu como coautor de outros dois artigos científicos desenvolvidos pelo grupo durante seu período de mestrado, fortalecendo a produção acadêmica do CPGEI e ampliando a visibilidade científica da linha de pesquisa em biomateriais e engenharia aplicada à saúde.

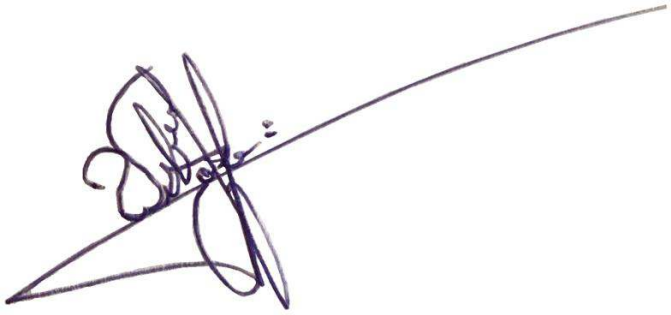
Cabe destacar que esses resultados foram obtidos em um contexto particularmente desafiador, durante a pandemia, o que evidencia sua capacidade de adaptação, resiliência e manutenção de alto rigor científico mesmo sob condições adversas.

Outro aspecto que diferencia o Sr. Conforto é sua capacidade singular de integrar a prática profissional à pesquisa acadêmica. Durante todo o mestrado, manteve sua atuação na Siemens Healthineers, lidando diretamente com equipamentos médicos de alta complexidade em ambiente hospitalar, frequentemente em situações críticas. Essa vivência prática conferiu às suas atividades acadêmicas um caráter altamente aplicado, permitindo que suas análises e contribuições fossem diretamente informadas por demandas reais do setor de saúde.

Do ponto de vista técnico, o Sr. Conforto possui sólida formação em engenharia elétrica e biomédica, com domínio de instrumentação, processamento de sinais e análise experimental. Demonstra rigor metodológico, capacidade de trabalhar com problemas multidisciplinares e habilidade de traduzir desafios técnicos complexos em soluções estruturadas e fundamentadas. Sua produção científica e sua atuação profissional evidenciam uma combinação rara de competências, especialmente na interface entre engenharia, materiais e aplicações médicas.

Com base na minha experiência acompanhando sua trajetória acadêmica e profissional, posso afirmar que o Sr. Conforto possui qualificação técnica e científica para contribuir de forma significativa para o avanço de tecnologias aplicadas à saúde, particularmente em contextos que envolvem equipamentos médicos de alta complexidade e processos que impactam diretamente a qualidade do diagnóstico e do atendimento clínico.

Estou à disposição para fornecer quaisquer informações adicionais que se façam necessárias.



Wilson José da Silva
Universidade Tecnológica Federal do Paraná



Wilson José da Silva

CNPq Research Productivity Fellow – Level C

Link to access this CV: https://lattes.cnpq.br/6419561860187332
Lattes ID: **6419561860187332**
Last Curriculum update on 02/26/2026

Bachelor's degree in Mathematics from the Federal University of Paraná (1996). Master's degree in PHYSICS from the University of São Paulo (Development of a Prototype Dental Tomograph, 2002). Ph.D. in Materials Engineering from the Federal University of Paraná (Fabrication of Hybrid Transistors, 2009). Postdoctoral (1) in Electrical Engineering and Industrial Informatics at the Federal Technological University of Paraná (Construction of Organic Optical Fibers, 2011), with part of the research conducted at Bernese Lutheran University, Switzerland. PhD (2) in Electrical Engineering and Industrial Informatics at the Federal Technological University of Paraná (Lab-on-a-chip sensors, 2013), with part of the research conducted at the University of California, San Diego, California. PhD (3) in Electrical Engineering and Industrial Informatics at the Federal Technological University of Paraná (Hybrid Solar Cells, 2015); with part of the research conducted at Kyung Hee University and New York University. 2018 - COORDINATOR of the Graduate Studies Program in Electrical Engineering and Industrial Informatics - CPGEI, a CAPES Level 6 Program of EXCELLENCE (2021-2024) – CNPq Productivity Fellow - PQ-2 – Contact: wilsonjsilva@utfpr.edu.br (**Information provided by the author**)

Identification

Name
Wilson José da Silva

Name in bibliographic citations

SILVA, W. J.; Hümmelgen, Ivo A.; da Silva, Wilson J.; da Silva, Wilson Jose; da Silva, W.J.; SILVA, WILSON J. DA; Wilson José da Silva; SILVA, WILSON JOSÉ DA; JOSE DA SILVA, WILSON; JOSÉ DA SILVA, WILSON; DA SILVA, W.J.; DA SILVA, WILSON JOSÉ; WILSON JOSE DA SILVA; WILSON JOSÉ DA SILVA; WILSON J SILVA; WILSON J. SILVA; WILSON J. DA SILVA; SILVA, WILSON J.

Lattes ID https://lattes.cnpq.br/6419561860187332

Orcid iD https://orcid.org/0000-0002-6288-3625

Country of Nationality Brazil

Address

Professional Address:

Federal Technological University of Paraná,
Curitiba Campus.
Av. Sete de Setembro, 3165 (Dept. CPGEI)
Rebouças
80230901 - Curitiba, PR - Brazil
Phone: (41) 3528-1451
Homepage URL: https://www3.utfpr.edu.br/

Academic Background / Degrees

2005 - 2009

Ph.D. in Materials Engineering and Science
Federal University of Paraná (UFPR), Brazil
Dissertation: Hybrid Transistors with a Chemically Deposited Pseudo-Metallic Base; Year Awarded: 2009
Advisor: Ivo Alexandre Hümmelgen.
Fellow: Coordination for the Improvement of Higher Education Personnel, CAPES, Brazil.
Keywords: Optoelectronic Devices; Organic Electronics; Hybrid Transistors.
Major Area: Exact and Earth Sciences / Area: Physics / Subareas: Condensed Matter Physics; Thin Films

1999 - 2002

Master's Degree in Applied Physics to Medicine and Biology
University of São Paulo (USP), Brazil.
Thesis: Tomographic Images Reconstructed Using a Neural Reconstruction Algorithm, Year Awarded: 2003
Advisor: Carlos Alberto Pelá.
Fellow: São Paulo Research Foundation (FAPESP), Brazil.
Keywords: General Physics; Solid-State Physics; Tomography

1992 - 1996

Bachelor's Degree in Mathematics
Federal University of Paraná (UFPR), Brazil.

Postdoctoral

2013 - 2015

Postdoctoral.
Federal Technological University of Paraná (UTFPR), Brazil.
Fellow: National Council for Scientific and Technological Development, CNPq, Brazil.

2011 - 2013

Postdoctoral.
Federal Technological University of Paraná (UTFPR), Brazil
Fellow: National Project for Research and Development, PNPD, Brazil.
Major Area: Engineering / Area: Electrical Engineering
Major Area: Engineering / Area: Chemical Engineering / Subarea: Biomedical Engineering

2009 - 2011

Postdoctoral
Federal Technological University of Paraná (UTFPR), Brazil
Fellow: National Council for Scientific and Technological Development, CNPq, Brazil.
Major Area: Exact and Earth Sciences / Area: Physics /

Subarea: Condensed Matter Physics / Specialization: Optical Properties and Spectroscopy of Condensed Matter; Other Interactions of Matter with Radiation and Particles
Major Area : Engineering / Area: Electrical Engineering
Major Area : Exact and Earth Sciences / Area: Physics / Subarea: Photonics

Additional Training

1986 - 1990

ELECTRONICS (Total hours: 3,510h).
Federal Technological University of Paraná (UTFPR), Brazil

Professional Experience

Federal Technological University of Paraná (UTFPR), Brazil

Institutional Affiliation

2017 - Present

Employment Type: Public Servant
Position: Assistant Professor I, Workload: 40h
Regime: Exclusive dedication.

Activities

03/2019 - Present

Other technical-scientific activities, Curitiba Campus.
Curitiba Campus.

Activity performed
AD HOC CONSULTANT FOR CNPQ.

01/2019 - Present

Other technical-scientific activities, Curitiba Campus.
Curitiba Campus.

Activity performed
CNPq Research Productivity Fellow (PQ-2)

02/2017 - Present

Other technical-scientific activities, Curitiba Campus.
Curitiba Campus.

Activity performed
Member, Undergraduate Program Committee (NDE) for the Electronic Engineering program.

02/2021 - 02/2024

Other technical-scientific activities, Curitiba Campus.
Curitiba Campus.

Activity performed
Coordinator of the Graduate Program in Electrical Engineering and Industrial Informatics (CPGEI) - a Program of EXCELLENCE (rated 6).

05/2018 - 02/2021

Other technical-scientific activities, Curitiba Campus.
Curitiba Campus.

Activity performed
Deputy Coordinator of the Graduate Studies Program in Electrical Engineering and Industrial Informatics (CPGEI)

Estácio Curitiba University Center, Brazil

Institutional Affiliation

2005–2016

Employment Formal labor contract,
Position: Professor, Workload: 10h

FAE University Center, Brazil

Institutional Affiliation

2011–2016

Employment Formal labor contract,
Position: Professor, Workload: 16h

Additional information

Courses taught: Electro-electronics; Physics III;
Fluid Mechanics; Differential Equations;
Numerical Calculus.

Research Projects

2011 - 2014

Development of a Diagnostic Support Device for the Rede Cegonha Program

Status: Completed; Nature: Research.
Students Involved: / Professional Master's: 2 /
Doctoral: 2

Research Team: Wilson José da Silva – Member /
Fábio Kurt Schneider – Member / Wido Herwig Schreiner –
Project Coordinator

2010 – 2011

Waveguides and Periodic Structures in PMMA and PVA

Description: Waveguides can be produced in PMMA (polymethyl methacrylate) and PVA (polyvinyl acetate) through ultraviolet (UV) illumination. For this purpose, an experimental setup was developed using nanopositioning stages with nanometer-scale resolution, allowing the samples to be moved at programmable speeds and motion profiles while a finely focused UV beam was directed onto the material. The use of microscope objectives with different numerical apertures enabled control over the depth of the photorefractive interaction region, allowing the fabrication of either surface or buried waveguides. Periodic photorefractive structures were recorded using UV light interference patterns, employing a technique commonly used for fiber Bragg gratings….
Status: Completed

Research Team: Wilson José da Silva - Member /
Hypolito Kalinowski - Coordinator.
Funding Agency(ies): National Council for Scientific and Technological Development (CNPq) - Cooperation.

Development Projects

2015 – 2016

Photovoltaic Electric Power Generation

Description: A silicon oxide (SiO_x) layer is thermally evaporated onto an indium tin oxide (ITO) substrate. A dielectric SPAN layer is then deposited, followed by a polyaniline layer, a p-type silicon oxide (SiO_x) layer, and finally an aluminum layer. When photons strike the multilayer structure, an electric current is generated.
Status: Ongoing; Completed; Nature: Development
Students Involved: Undergraduate: 1.

Research Team: Wilson José da Silva – Coordinator

2015 – 2016

Electric Power Generation Through the Adiabatic Compression of Compressed Air

Description: Compressed air released from a storage tank is directed through a microturbine, generating mechanical work that is converted into electrical energy by a generator. The compressed-air tank undergoes thermal treatment designed to optimize the amount of electrical energy produced.
Status: Ongoing; Completed; Nature: Development
Students Involved: Undergraduate: 1.

Research Team: Wilson José da Silva – Coordinator / Eduardo Henrique dos Santos Rosa – Member

Journal Reviewer

2015 – Present

Journal: International Journal of Energy Engineering

2015 – Present

Journal: American Journal of Biomedical Engineering

2015 – Present

Journal: International Journal of Instrumentation Science

2015 – Present

Journal: American Journal of Polymer Science

2013 – Present

Journal: Brazilian Journal of Biomedical Engineering
(Print Edition)

Areas of Expertise

1.

Major Area: Exact and Earth Sciences / Area: Physics / Subarea: Organic Electronics / Specialization: Hybrid Transistors.

2.

Major Area: Exact and Earth Sciences / Area: Physics / Subarea: Solar Cells.

3.

Major Area: Exact and Earth Sciences / Area: Physics / Subarea: Lasers.

4.

Major Area: Exact and Earth Sciences / Area: Physics / Subarea: Optical Fibers.

5.

Major Area: Exact and Earth Sciences / Area: Physics / Subarea: Thin Films.

6.

Major Area: Exact and Earth Sciences / Area: Physics
Subarea: Semiconductor Materials and Components

Languages

English

Good reading, writing, speaking, and comprehension skills.

Spanish

Fair reading, speaking, and comprehension skills; limited writing skills.

Publications

Bibliographic Production

Citations

Web of Science		
Total publications: 18	Total citations: 462	Date: 08/18/2018

da Silva, Wilson Jose; Wilson José da Silva; WILSON JOSE DA SILVA; WILSON JOSÉ DA SILVA; JOSE DA SILVA, WILSON; DA SILVA, WILSON JOSE

Full Articles Published in Scientific Journals

Sorted by

Chronological Order

1.

LUIZ, LUIZ E.; **da Silva, Wilson J.**; SOARES, SALVIANO; LEITÃO, Paulo; TEIXEIRA, João P. . Portable System and User Interface for ECG and EMG Acquisition, Conditioning, and Parameters Extraction. Procedia Computer Science, vol. 256, pp. 1216–1223, 2025.

2.

AHMAD RASID, NUR NAJIHA BINTI; MOHAMAD FADIL, NUR WARDINA SYAHIRAH BINTI; **da Silva, Wilson Jose**; GAO, PENG; MOHD YUSOFF, ABD. RASHID BIN. Fully Printed Organic Photovoltaic Employing F and N Co-Doped Graphene Oxide/Polyaniline as Hole Extraction Layer and Copper Nanowires as Transparent Conductive Electrode. SYNTHETIC METALS (**JCR**), vol. 313, p. 117914, 2025.

3.

ROSA, EDUARDO H. DOS S.; GAVIM, ANDERSON E.X.; ARAÚJO, FRANCINEIDE LOPES DE; DE MORAIS, ANDREIA; DE FREITAS, JILIAN NEI; BEZERRA JR., ARANDI GINANE; GERNISKI MACEDO, ANDREIA; **SILVA, WILSON JOSÉ DA**; NOGUEIRA, ANA FLÁVIA. Scavenger Effect of Au NPs to Stabilize the Excess of TFSI− from Spiro-OMeTAD Layer. SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol. 264, p. 112600, 2024. **Citations**: **WEB OF SCIENCE** - 2 | **SCOPUS** 1

4.

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English, as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: August 04, 2026



Wilson José da Silva

Bolsista de Produtividade em Pesquisa do CNPq - Nível C

Endereço para acessar este CV: https://lattes.cnpq.br/6419561860187332
ID Lattes: **6419561860187332**
Última atualização do currículo em 26/02/2026

Graduação em Matemática pela Universidade Federal do Paraná (1996). Mestrado em FÍSICA pela Universidade de São Paulo (Construção do protótipo de um tomógrafo Odontológico 2002).Doutorado em Engenharia de Materiais pela Universidade Federal do Paraná (Produção de Transistores Híbridos, 2009).Pós Doutorado (1) em Engenharia Elétrica e Informática Industrial pela Universidade Tecnológica Federal do Paraná (Construção de Fibras Óticas Orgânicas, 2011), parte dos estudos foi realizado na Universidade Luterana Bernense, Suíça.Pós Doutorado (2) em Engenharia Elétrica e Informática Industrial pela Universidade Tecnológica Federal do Paraná (Sensores Lab on a chip, 2013), parte dos estudos foi realizado na universidade San Diego, CA.Pós Doutorado (3) em Engenharia Elétrica e Informática Industrial pela Universidade Tecnológica Federal do Paraná (Células Solares Híbridas, 2015), parte dos estudos foi realizado nas universidades Kyung Hee University e New York University.2018 - COORDENADOR do Programa de Pós-Graduação em Engenharia Elétrica e Informática Industrial - CPGEI, Programa de EXCELÊNCIA Nível 6 CAPES (2021-2024) - Bolsista Produtividade CNPq - PQ_2 - Contato: wilsonjsilva@utfpr.edu.br **(Texto informado pelo autor)**

Identificação

Nome

Wilson José da Silva

Nome em citações bibliográficas

SILVA, W. J.;Hümmelgen, Ivo A.;da Silva, Wilson J.;da Silva, Wilson Jose;da Sillva, W.J.;SILVA, WILSON J. ´DA;Wilson José da Silva;SILVA, WILSON JOSÉ DA;JOSE DA SILVA, WILSON;JOSÉ DA SILVA, WILSON;DA SILVA, W.J.;DA SILVA, WILSON JOSÉ;WILSON JOSÉ DA SILVA;WILSON JOSÉ DA SILVA;WILSON J SILVA;WILSON J. SILVA;WILSON J. DA SILVA;SILVA, WILSON J.

Lattes iD

https://lattes.cnpq.br/6419561860187332

Orcid iD

? https://orcid.org/0000-0002-6288-3625

País de Nacionalidade

Brasil

Endereço

Endereço Profissional

Universidade Tecnológica Federal do Paraná, Campus Curitiba.
Av. Sete de Setembro, 3165 (depto. CPGEI)
Rebouças
80230901 - Curitiba, PR - Brasil
Telefone: (41) 35281451
URL da Homepage: https://www3.utfpr.edu.br/

Formação acadêmica/titulação

2005 - 2009

Doutorado em Engenharia e Ciência dos Materiais.
Universidade Federal do Paraná, UFPR, Brasil.
Título: Transistore Híbridos com Base Pseudo-Metálica Quimicamente Depositada, Ano de obtenção: 2009.
Orientador: Ivo Alexandre Hümmelgen.
Bolsista do(a): Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, CAPES, Brasil.
Palavras-chave: Dispositivos Opto Eletrônicos; Eletrônica orgânica; Transistores Hybridos. ,
Grande área: Ciências Exatas e da Terra / Área: Física / Subárea: Física da Matéria Condensada.
Grande Area: Ciências Exatas e da Terra / Área: Física / Subárea: Filmes Finos.

1999 - 2002

Mestrado em Física Aplicada à Medicina e Biologia.
Universidade de São Paulo, USP, Brasil.
Título: Imagens Tomograficas reconstruidas por um algoritimo de reconstrução neural, Ano de Obtenção: 2003.
Orientador: Carlos Alberto Pelá.
Bolsista do(a): Fundação de Amparo à Pesquisa do Estado de São Paulo, FAPESP, Brasil.
Palavras-chave: Fisica Geral; Física de Estado Sólido; Tomografia.

1992 - 1996

Graduação em Bacharel em Matemática.
Universidade Federal do Paraná, UFPR, Brasil.

Pós-doutorado

2013 - 2015

Pós-Doutorado.
Universidade Tecnológica Federal do Paraná, UTFPR, Brasil.
Bolsista do(a): Conselho Nacional de Desenvolvimento Científico e Tecnológico, CNPq, Brasil.

2011 - 2013

Pós-Doutorado.
Universidade Tecnológica Federal do Paraná, UTFPR, Brasil.
Bolsista do(a): National Project for Research and Development, PNPD, Brasil.
Grande área: Engenharias / Área: Engenharia Elétrica. ,
Grande Área: Engenharias / Área: Engenharia Química / Subárea: Engenharia Biomédica.

2009 - 2011

Pós-Doutorado.
Universidade Tecnológica Federal do Paraná, UTFPR, Brasil.
Bolsista do(a): Conselho Nacional de Desenvolvimento Científico e Tecnológico, CNPq, Brasil.
Grande área: Ciências Exatas e da Terra / Área:

Física / Subárea: Física da Matéria Condensada / Especialidade: Prop. Óticas e Espectrosc. da Mat. Condens; Outras Inter. da Mat. com Rad. e Part..
Grande Área: Engenharias / Área: Engenharia Elétrica. ,
Grande Área: Ciências Exatas e da Terra / Área: Física / Subárea: Fotônica.

Formação Complementar

1986 - 1990

ELETRONICA. (Carga horária: 3510h).
Federal Technological University of Paraná, UTFPR, Brasil.

Atuação Profissional

Universidade Tecnológica Federal do Paraná, UTFPR, Brasil.

Vínculo institucional

2017 - Atual

Vínculo: Servidor público, Enquadramento Funcional: Professor Adjunto I, Carga horária: 40, Regime: Dedicação exclusiva.

Atividades

03/2019 - Atual

Outras atividades técnico-científicas , Campus Curitiba, Campus Curitiba.

Atividade realizada
CONSULTOR AD HOC DO CNPQ..

01/2019 - Atual

Outras atividades técnico-científicas , Campus Curitiba, Campus Curitiba.

Atividade realizada
Bolsista Pesquisador CNPq Produtividade - PQ_2.

02/2017 - Atual

Outras atividades técnico-científicas , Campus Curitiba, Campus Curitiba.

Atividade realizada
Membro do NDE do curso de Engenharia Eletrônica.

02/2021 - 02/2024

Outras atividades técnico-científicas , Campus Curitiba, Campus Curitiba.

Atividade realizada
Coordenador do Programa de Engenharia Elétrica e Informática Industrial - CPGEI programa de EXCELÊNCIA nota 6.

05/2018 - 02/2021

Outras atividades técnico-científicas , Campus Curitiba, Campus Curitiba.

Atividade realizada
Coordenador Adjunto do Programa de Pós-Graduação em Engenharia Elétrica e Informática Industrial - CPGEI.

Faculdades Estácio Curitiba (Pr), ESTÁCIO, Brasil.

Vínculo institucional

2005 - 2016

Vínculo: Formal labor contract, Enquadramento Funcional: Professor, Carga horária: 10

Centro Universitário (FAE), FAE, Brasil.

Vínculo institucional

2011 - 2016

Vínculo: Celetista, Enquadramento Funcional: Professor, Carga horária: 16

Outras informações

Aulas ministradas: Eletroeletrônica; Física III; Mecânica do fluidos; Equações Diferenciais; Cálculo Numérico.

Projetos de pesquisa

2011 - 2014

Desenvolvimento de Dispositivo para Suporte Diagnóstico ao Programa Rede Cegonha

Situação: Concluído; Natureza: Pesquisa.
Alunos envolvidos: / Mestrado profissional: (2) / Doutorado: (2) .

Integrantes: Wilson José da Silva - Integrante / Fabio Kurt Schneider - Integrante / Wido Herwig Schreiner - Coordenador.

2010 - 2011

Guias de Ondas e Estruturas Periódicas em PMMA E PVA

Descrição: Guias de onda podem ser produzidos em PMMA (poli metil metacrilato) e PVA (acetato de polivinila) por meio de iluminação ultra-violeta. Para tal foi montado um arranjo experimental utilizando posicionadores com resolução nanométrica, permitindo deslocar as amostras com velocidade (e perfil) programados enquanto um feixe de luz UV é finamente focalizado sobre ela. O uso de objetivas de microscópio com aberturas numéricas diferenciadas permite aprofundar a região de interação foto-refrativa, permitindo registrar guias superficiais ou enterrados. O registro de estruturas foto-refrativas periódicas foi realizado por meio de padrões de interferência de luz UV, na técnica normalmente empregada para redes de Bragg em fibras..
Situação: Concluído; Natureza: Pesquisa.

Integrantes: Wilson José da Silva - Integrante / Hypolito Kalinowski - Coordenador.
Financiador(es): Conselho Nacional de Desenvolvimento Científico e Tecnológico - Cooperação.

Projetos de desenvolvimento

2015 - 2016

Produção de Energia Elétrica Fotovoltáica

Descrição: Em um substrato contendo ITO, é depositado por evaporação térmica uma camada de Oxido de Silicio_n, sobre o Si deposita-se uma camada dielétrica de SPAN, sobre a polianilia é depositada uma camada de Oxido de Si_p. e por fim Alumínio. A incidência de fótons sobre o substrato gera corrente elétrica..
Situação: Concluído; Natureza: Desenvolvimento.
Alunos envolvidos: Graduação: (1) .

Integrantes: Wilson José da Silva - Coordenador.

2015 - 2016

Produção de Energia Elétrica a partir da Compressão Adiabática do Ar comprimido.

Descrição: O ar que sai de um tanque de ar comprimido é liberado através de uma micro-turbina, gerando trabalho e produzindo energia elétrica, através de um gerador. No tanque de ar comprimido é feito um tratamento térmico, cujo principal efeito é otimizar a energia elétrica produzida..
Situação: Concluído; Natureza: Desenvolvimento.
Alunos envolvidos: Graduação: (1) .

Integrantes: Wilson José da Silva - Coordenador / Eduardo Henrique dos Santos Rosa - Integrante.

Revisor de periódico

2015 - Atual

Periódico: International Journal of Energy Engineering

2015 - Atual

Periódico: American Journal of Biomedical Engineering

2015 - Atual

Periódico: International Journal of Instrumentation Science

2015 - Atual

Periódico: American Journal of Polymer Science

2013 - Atual

Periódico: Revista Brasileira de Engenharia Biomédica (Impresso)

Áreas de atuação

1.

Grande área: Ciências Exatas e da Terra / Área: Física / Subárea: Eletrônica Orgânica/Especialidade: Transistores Hybridos.

2.

Grande área: Ciências Exatas e da Terra / Área: Física / Subárea: Células Solares.

3.

Grande área: Ciências Exatas e da Terra / Área: Física / Subárea: Lasers.

4.

Grande área: Ciências Exatas e da Terra / Área: Física / Subárea: Fibras Óticas.

5.

Grande área: Ciências Exatas e da Terra / Área: Física / Subárea: Filmes Finos.

6.

Grande área: Ciências Exatas e da Terra / Área: Física / Subárea: Materiais e Componentes Semicondutores.

Idiomas

Inglês

Compreende Bem, Fala Bem, Lê Bem, Escreve Bem.

Espanhol

Compreende Razoavelmente, Fala Razoavelmente, Lê Razoavelmente, Escreve Pouco.

Produções

Produção bibliográfica

Citações

Web of Science

Total de trabalhos: 18 Total de citações: 462 Data: 18/08/2018

da Silva, Wilson Jose; wilson josé da silva; WILSON JOSE DA SILVA; WILSON JOSÉ DA SILVA; JOSE DA SILVA, WILSON; DA SILVA, WILSON JOSE

Artigos completos publicados em periódicos

Ordenar por

Ordem Cronológica

1.

LUIZ, LUIZ E. ; **da Silva, Wilson J.** ; SOARES, SALVIANO ; LEITÃO, PAULO ; TEIXEIRA, JOÃO P. . Portable System and User Interface for ECG and EMG Acquisition, Conditioning, and Parameters Extraction. PROCEDIA COMPUTER SCIENCE, v. 256, p. 1216-1223, 2025.

2.

AHMAD RASID, NUR NAJIHA BINTI ; MOHAMAD FADIL, NUR WARDINA SYAHIRAH BINTI ; **da Silva, Wilson Jose** ; GAO, PENG ; MOHD YUSOFF, ABD. RASHID BIN . Fully printed organic photovoltaic employing F and N co-doped graphene oxide/polyaniline as hole extraction layer and copper nanowires as transparent conductive electrode. SYNTHETIC METALS JCR, v. 313, p. 117914, 2025.

3.

ROSA, EDUARDO H. DOS S. ; GAVIM, ANDERSON E.X. ; ARAÚJO, FRANCINEIDE LOPES DE ; DE MORAIS, ANDREIA ; DE FREITAS, JILIAN NEI ; BEZERRA JR, ARANDI GINANE ; GERNISKI MACEDO, ANDREIA ; **SILVA, WILSON JOSÉ DA** ; NOGUEIRA, ANA FLÁVIA . Scavenger effect of Au NPs to stabilize the excess of TFSI− from Spiro-OMeTAD layer. SOLAR ENERGY MATERIALS AND SOLAR CELLS JCR, v. 264, p. 112600, 2024. **Citações:** WEB OF SCIENCE ™ 2 | SCOPUS 1

4.

April 7, 2026
To the USCIS Immigration Officer,

It is with great enthusiasm that I write this letter in support of Mr. Júlio Conforto. My name is Antônio Ernesto Todeschini, and I am a urologist who graduated from the University of Caxias do Sul in 1978 and completed my medical residency at the Federal University of Rio Grande do Sul. Throughout my professional career, I have worked both in clinical practice and hospital management, and I was one of the founders of Santa Mônica Hospital in the State of Rio Grande do Sul, Brazil. Since its establishment, I have closely followed the institution's growth, as it has become a regional reference in hospital care through continuous investment in advanced technology and high-quality healthcare services, including the implementation of high-complexity magnetic resonance imaging (MRI) equipment.

Mr. Conforto began working at Santa Mônica Hospital as a Field Service Engineer for Siemens Healthineers in September 2015. He was responsible for providing technical support for the 1.5 Tesla magnetic resonance imaging (MRI) system installed at our hospital. Although my primary role is in the medical field, as one of the founders of the institution, I have always closely monitored the maintenance and technical interventions performed on this equipment, as its reliability directly affects the quality of diagnostic imaging and, consequently, patient diagnoses. This close involvement allowed me to consistently observe Mr. Conforto's work over the years.

I can recall several situations in which Mr. Conforto distinguished himself in his field. One example involved a recurring imaging artifact affecting breast MRI examinations, which compromised image quality and the accuracy of medical reports. Several professionals had previously attempted to resolve the issue without success. Mr. Conforto took ownership of the case, monitored the examinations, performed system calibrations, and conducted a thorough technical investigation until he identified the root cause, which was related to the spacing between specific components of equipment. After implementing a temporary solution to validate his findings, he documented the issue and submitted his analysis to the responsible team, ultimately leading to the development of a specific component that permanently eliminated the problem.

On another occasion, a helium leak occurred in the equipment's circuit, a critical situation that could have compromised its operation and resulted in the loss of a vital consumable. Mr. Conforto responded with technical expertise and efficiency, successfully repairing the system, preventing losses and ensuring the continuity of examinations. In another instance, following a preventive maintenance procedure, the system computer failed during startup. Faced with this situation, he worked throughout the night and into the early morning hours to restore the equipment's functionality, ensuring the examination schedule remained uninterrupted the following day.

Throughout these experiences, it became evident to me that Mr. Conforto's greatest strengths lie in his persistence, investigative mindset, and commitment to developing lasting solutions. In my opinion, the impact of his work extends well beyond the positive outcomes observed at our hospital and carries broader implications and forward-looking impact.



His approach not only improves the maintenance of medical equipment but also enhances hospital operational efficiency and, most importantly, contributes to public health by increasing the accuracy and reliability of medical diagnoses.

In my opinion, Mr. Conforto has consistently demonstrated his ability to solve complex and persistent technical problems that other engineers were unable to resolve by employing a methodology centered on thorough investigation, root cause analysis, and the development of definitive solutions with broad applicability. It is important to emphasize that the results of his work are replicable and highly relevant to the healthcare sector as a whole, particularly with respect to advanced medical equipment maintenance, improved hospital operational efficiency, and enhanced technological reliability.

At a time when the availability and accuracy of magnetic resonance imaging systems are essential for diagnosing critical conditions in fields such as oncology and neurology, professionals with Mr. Conforto's expertise make a direct contribution to the overall improvement of healthcare services. As such, his work generates benefits that extend far beyond individual institutions, positively impacting the medical technology industry as a whole and, ultimately, contributing to improved public health.

Sincerely,



Antônio Ernesto Todeschini
Hospital Santa Mônica Hospital
smi@smi.med.br
+55 54 99998-6402

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: August 4, 2026

7 de abril de 2026,
Para o oficial de imigração da USCIS

Com muito entusiasmo, escrevo esta carta em suporte ao Sr. Júlio Conforto. Me chamo Antônio Ernesto Todeschini, sou médico urologista, formado pela Universidade de Caxias do Sul, onde me graduei em 1978, e com residência médica pela Universidade Federal do Rio Grande do Sul. Ao longo da minha trajetória profissional, atuei tanto na prática médica quanto na gestão hospitalar, sendo um dos fundadores do Hospital Santa Mônica, no Estado do Rio Grande do Sul, Brasil. Desde então, acompanho de perto o desenvolvimento da instituição, que se consolidou como referência regional em atendimento hospitalar, com investimento contínuo em tecnologia e na qualidade assistencial, incluindo a implantação de equipamentos de ressonância magnética de alta complexidade.

O Sr. Conforto iniciou suas atividades no Hospital Santa Monica como engenheiro de campo da Siemens Healthineers em setembro de 2015. Ele foi responsável pelo atendimento técnico do equipamento de ressonância magnética de 1,5 Tesla instalado em nosso hospital. Embora minha atuação seja na área médica, como fundador da instituição, sempre acompanhei as manutenções e intervenções realizadas nesse equipamento, uma vez que sua confiabilidade impacta diretamente a qualidade dos exames e, consequentemente, o diagnóstico dos pacientes. Essa proximidade me permitiu observar, de forma consistente, o trabalho desenvolvido pelo Sr. Conforto ao longo dos anos.

Eu posso mencionar várias situações nas quais o Sr. Conforto se destacou em seu campo de atuação, entre elas quando enfrentávamos um problema recorrente de artefato nos exames de mamo realizado no equipamento de ressonância magnética, que comprometia a qualidade das imagens e a precisão dos laudos médicos. Diversos profissionais já haviam tentado solucionar a falha, sem sucesso. O Sr. Conforto assumiu o caso, acompanhou os exames, realizou calibrações e conduziu uma investigação detalhada até identificar a causa raiz, relacionada a um espaçamento entre componentes específicos do equipamento. Após testar uma solução provisória para validar a hipótese, ele documentou o problema e encaminhou as informações à equipe responsável, o que resultou no desenvolvimento de uma peça específica para eliminar definitivamente a falha.

Em outra ocasião, houve um vazamento de hélio no circuito do equipamento, situação crítica que poderia comprometer seu funcionamento e resultar na perda de um insumo essencial. O Sr. Conforto atuou de forma técnica e eficiente no reparo, evitando prejuízos e garantindo a continuidade dos exames. Além disso, após uma manutenção preventiva, surgiu uma falha no computador do sistema durante a inicialização. Diante desse cenário, ele se dedicou durante a noite e parte da madrugada a restabelecer o funcionamento do equipamento, assegurando que a agenda de exames não fosse interrompida no dia seguinte.

Ao longo dessas experiências, tornou-se evidente para mim que o diferencial do Sr. Conforto está na combinação de persistência, capacidade investigativa e compromisso com soluções duradouras. Em minha avaliação, os resultados de sua atuação não se limitam aos efeitos positivos observados no nosso hospital, mas se projetam de forma mais ampla e prospectiva.

Sua abordagem não apenas aprimora a manutenção de equipamentos médicos, como também contribui para a eficiência operacional hospitalar e, sobretudo, para a saúde pública, ao promover maior precisão nos diagnósticos médicos.

Em minha opinião, o Sr. Conforto demonstra que ele é um profissional capaz de resolver problemas complexos e crônicos que outros engenheiros não conseguiram solucionar, por meio de uma abordagem baseada na investigação aprofundada, identificação de causa raiz e desenvolvimento de soluções definitivas com aplicabilidade ampla. Importante destacar que os resultados de sua atuação possuem caráter replicável e relevância para todo o setor de saúde, especialmente no que se refere à manutenção avançada de equipamentos médicos, ao aumento da eficiência operacional hospitalar e aprimoramento da confiabilidade tecnológica.

Em um contexto em que a disponibilidade e a precisão de equipamentos de ressonância magnética são essenciais para diagnósticos em áreas críticas como oncologia e neurologia, profissionais com esse perfil contribuem diretamente para a melhoria sistêmica dos serviços de saúde. Dessa forma, seu trabalho promove benefícios que transcendem instituições individuais, impactando positivamente a indústria como um todo e, consequentemente, a qualidade da saúde pública.

Atenciosamente,

Antônio Ernesto Todeschini
Hospital Santa Mônica
smi@smi.med.br
+55 54 99998-6402

April 07, 2026

To the USCIS,

Stênio Henrique de Souza, the undersigned, neurosurgeon and neurologist with over fifty years of professional experience, medical degree at the Federal Universisty of Rio Grande do Sul, medical residency in Neurosurgery at the University of São Paulo, and fellowship in Neurosurgery at Queen Square Hospital at the University of London. Throughout my career, Ihave practiced continuously in the Western region of Parana, both in direct patient care and in the training of new professionals, in addition to serving as co-owner of Neuroclínica, physician at Policlínica Hospital of Cascavel, and managing partner of Unitom, Centro de Diagnóstico por Imagem where I daily monitor highly complex examinations.

I came to know Mr. Júlio Conforto's work through the technical activities he performed on the magnetic resonance imaging equipment at our diagnostic center, particularly on the 3-Tesla Magnetom Skyra and Magnetom Aera systems. As the sole field engineer from Siemens Healthineers responsible for our geographic region, he was present on several occasions involving maintenance and technical support. Due to my position, I closely followed his performance whenever an intervention on the equipment was required.

In one specific situation, we observed an intermittent artifact in knee examinations performed on the Magnetom Skyra, which hindered the analysis of the scans by the radiologists. Mr. Conforto identified that the root cause of the problem was related to the contrast medium injector pump used in contrast-enhanced exams and guided the operational team on how to proceed to avoid interference during the execution of the examinations, allowing the continuity of care until the replacement of the defective component. This response demonstrated diagnostic precision and the capability to maintain operations running even when faced with complex failures.

On another occasion, we were dealing with a recurring issue in the electrical system, where the main circuit breaker would trip without an apparent cause, affecting the equipment's operation and requiring frequent interventions by the team. Upon taking charge of the analysis, Mr. Conforto thoroughly investigated the situation and identified that the root cause lay in an improper configuration of the residual current circuit breaker. After the adjustment, the issue was completely resolved, eliminating the need for continuous corrective actions and restoring system stability.

I also monitored the replacement of the gradient coil in the Magnetom Aera system, a highly complex procedure that was initially projected to take five days to complete. Under Mr. Conforto's responsibility, the work was finalized in just three days, expediting the resumption of activities and allowing medical care to be restored ahead of the estimated schedule. This turnaround had a direct impact on the availability of examinations for the population served by the facility.



These experiences evidence a professional approach based on consistent technical analysis, a drive for definitive solutions, and a commitment to the continuity of services. Mr. Conforto demonstrates not only mastery over the systems with which he works, but also a deep understanding of the direct impact of his actions on diagnostic quality and patient safety. His

ability to identify hard-to-reproduce faults, guide teams, and reduce equipment downtime contributes concretely to the efficient operation of healthcare services that rely on advanced technology.

Considering the relevance of magnetic resonance imaging systems for diagnostics in areas such as neurology, orthopedics, and other specialties, professionals with this level of technical competence and responsibility play an essential role in environments that demand precision and operational continuity. Based on my experience monitoring his work, I understand that Mr. Conforto possesses qualifications that allow him to contribute significantly in contexts requiring high technical standards and a direct impact on the healthcare field.

His work goes far beyond technical maintenance: he understands the impact of his actions on patients' lives and acts in accordance with this principle. Therefore, I recommend him without any reservation to practice in the United States, where he will certainly contribute significantly to the excellence of maintenance services for hospital machines and equipment.

Sincerely,



Stênio Henrique de Souza
Neuroclínica - Clínica de Neurologia
Unitom - Unidade de Diagnóstico por Imagem

steniohsouza@gmail.com
+55 (45) 98818-5020

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ Date: July 31, 2026.

07 de abril 2026

À USCIS,

Stênio Henrique de Souza, abaixo assinado, médico neurocirurgião e neurologista com mais de cinquenta anos de experiência profissional, com graduação em Medicina pela Universidade Federal do Rio Grande do Sul, residência médica em Neurocirurgia pela Universidade de São Paulo e fellowship em Neurocirurgia no Hospital Queen Square, da Universidade de Londres. Ao longo da minha carreira, atuei de forma contínua na região do Oeste do Paraná, tanto na assistência direta aos pacientes quanto na formação de novos profissionais, além de exercer funções como sócio-proprietário da Neuroclínica, médico no Hospital Policlínica Cascavel e sócio-administrador da Unitom, centro de diagnóstico por imagem onde acompanho diariamente exames de alta complexidade.

Passei a conhecer o trabalho do Sr. Júlio Conforto por meio das atividades técnicas que realizou nos equipamentos de ressonância magnética em nosso centro de diagnóstico, especialmente nos sistemas Magnetom Skyra de 3 Tesla e Magnetom Aera. Como único engenheiro de campo da Siemens Healthineers responsável por nossa região geográfica, ele esteve presente em diversas situações de manutenção e de suporte técnico. Em função da minha posição, acompanhei de perto seu desempenho sempre que havia necessidade de intervenção nos equipamentos.

Em uma situação específica, observávamos um artefato intermitente nos exames de joelho realizados no Magnetom Skyra, o que dificultava a análise dos exames pelos médicos radiologistas. O Sr. Conforto identificou que a origem do problema estava relacionada à bomba injetora utilizada nos exames contrastados e orientou a equipe operacional sobre como proceder para evitar a interferência durante a execução dos exames, permitindo a continuidade dos atendimentos até a substituição do componente defeituoso. Essa atuação demonstrou precisão diagnóstica e capacidade de manter a operação em funcionamento mesmo diante de falhas complexas.

Em outra ocasião, lidávamos com um problema recorrente no sistema elétrico, em que o disjuntor principal desarmava sem causa aparente, afetando o funcionamento do equipamento e exigindo intervenções frequentes da equipe. Ao assumir a análise, o Sr. Conforto investigou a fundo a situação e identificou que a causa estava em uma configuração inadequada do disjuntor diferencial. Após o ajuste, o problema foi completamente resolvido, eliminando a necessidade de ações corretivas contínuas e restabelecendo a estabilidade do sistema.

Também acompanhei a substituição da bobina de gradiente do equipamento Magnetom Aera, um procedimento de alta complexidade que inicialmente estava previsto para ser concluído em cinco dias. Sob a responsabilidade do Sr. Conforto, o trabalho foi finalizado em três dias, antecipando a retomada das atividades e permitindo que os atendimentos fossem restabelecidos antes do prazo estimado, o que teve impacto direto na disponibilidade de exames para a população atendida pela unidade.

Essas experiências evidenciam uma atuação baseada em análise técnica consistente, na busca por soluções definitivas e no compromisso com a continuidade dos serviços. O Sr. Conforto demonstra não apenas domínio dos sistemas com os quais trabalha, mas também compreensão do impacto direto de suas ações sobre a qualidade dos diagnósticos e a

segurança dos pacientes. Sua capacidade de identificar falhas de difícil reprodução, orientar equipes e reduzir o tempo de indisponibilidade dos equipamentos contribui de forma concreta para o funcionamento eficiente dos serviços de saúde que dependem de tecnologia avançada.

Considerando a relevância dos sistemas de ressonância magnética para diagnósticos em áreas como neurologia, ortopedia e outras especialidades, profissionais com esse nível de competência técnica e responsabilidade desempenham um papel essencial em ambientes que exigem precisão e continuidade operacional. Com base na minha experiência acompanhando seu trabalho, entendo que o Sr. Conforto possui qualificações que o permitem contribuir de maneira significativa em contextos que demandam alto padrão técnico e impacto direto na área da saúde.

Sua atuação vai além da manutenção técnica: ele entende o impacto do seu trabalho na vida dos pacientes e age de acordo com esse princípio. Por isso, recomendo-o sem qualquer ressalva para atuar nos Estados Unidos, onde certamente contribuirá de forma significativa para a excelência dos serviços de manutenção de máquinas e equipamentos hospitalares.

Atenciosamente,

Stênio Henrique de Souza
Neuroclínica - Clínica de Neurologia
Unitom - Unidade de Diagnóstico por Imagem

steniohsouza@gmail.com
+55 (45) 98818-5020



Stenio Henrique de Souza

Link to access this CV: https://lattes.cnpq.br/3539742582998723
Lattes ID: **3539742582998723**
Last CV update on 10/07/2013

Specialization in Neurosurgery awarded by the Brazilian Medical Association and the Brazilian Society of Neurosurgery (1977). Medical Degree at the Federal University of Rio Grande do Sul (1972). Neurosurgeon, Co-owner of Neuroclínica in Cascavel, and Staff Physician at Policlínica Hospital of Cascavel and the Western Paraná University Hospital (HUOP). Guest Professor in the Internal Medicine Residency Program, teaching the Neurology subject. **(Text informed by the author)**

Identification

Name

Stenio Henrique de Souza

Name for bibliographic citations

SOUZA, S. H.

Lattes ID

https://lattes.cnpq.br/3539742582998723

Address

Business Address

Neuroclínica - Clínica de Neurologia.
Rua Santa Catarina, 925
85801-040 - Cascavel, Paraná - Brazil
Phone: (45) 33336666

Academic background/degrees

1973 - 1975

Specialization - Medical residency.
Ribeirão Preto Medical School. University of São Paulo (USP). Medical Residency in: Neurosurgery
Registration number: 6863 - Brazilian Federal Medical Council (CFM).
Fellowship holder: Ribeirão Preto Medical School. University of São Paulo (USP).
Keywords: neurology; neurosurgery.
Major Area: Health Sciences / Area: Medicine,
Major Area: Health Sciences / Area: Medicine / Subarea: Surgery.
Major Area: Health Sciences / Area:

Medicine / Subarea: Surgery /
Specialty: Neurosurgery.
Field of Activity: Human
Healthcare Services.

1996-1997

Specialization in NEUROLOGY. (Workload: 2760h).
Federal Medical Council - Paraná
Degree: Neurology.

1975 - 1977

Specialization in Neurosurgery. (Workload: 2760h).
Brazilian Society of Neurosurgery.
Degree: Neurosurgery.

1967 - 1972

Medical Degree.
Federal University of Rio Grande do Sul, UFRGS, Brazil.

Professional Experience

Western Paraná University Hospital (HUOP), Brazil.

Institutional Affiliation

2010 - Present

Employment Type: Assistant Professor, Job Title: Medical Residency Professor, Workload: 2

Other Information

Subject Instructor: Neurology, in the Medical Residency Program in Internal Medicine.

Institutional Affiliation

1993 - Present

Employment Type: Employed Physician, Job Title: private contract, Workload: 20

Neuroclínica - Clínica de Neurologia, NEUCL, Brazil.

Institutional Affiliation

1980 - Present

Employment Type: Physician - co-owner,
Job Title: Physician, Workload: 40

Institutional Affiliation

1980 - Present

Employment Type: co-owner,
Job Title: Surgeon, Workload: 40

Policlínica Hospital of Cascavel, HPC, Brazil.

Institutional Affiliation

1980 - Present

Employment Type: Neurosurgeon,
Job Title: Neurosurgeon, Workload: 10

Lines of research

Languages

English

Understands Well, Speaks Fairly,
Reads Well, Writes Fairly.

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I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ Date: July 31, 2026.



Stenio Henrique de Souza

Endereço para acessar este CV: https://lattes.cnpq.br/3539742582998723
ID Lattes: **3539742582998723**
Última atualização do currículo em 07/10/2013

Especialização em Neurocirurgia pela Associação Médica Brasileira e Sociedade Brasileira de Neurocirurgia (1977), Graduação em Medicina pela Universidade Federal do Rio Grande do Sul (1972)Médico na Área de Neurocirurgia, Sócio-proprietário da Clínica Neuroclínica em Cascavel, Médico dos Hospitais Policlínica Cascavel e Hospital Universitário do Oeste do Paraná HUOP. Professor convidado do Programa de Residência Médica em Clínica Médica, disciplina de Neurologia. **(Texto informado pelo autor)**

Identificação

Nome

Stenio Henrique de Souza

Nome em citações bibliográficas

SOUZA, S. H.

Lattes iD

https://lattes.cnpq.br/3539742582998723

Endereço

Endereço Profissional

Neuroclínica - Clínica de Neurologia.
Rua: Santa Catarina, 925
85801-040 - Cascavel, PR - Brasil
Telefone: (45) 33336666

Formação acadêmica/titulação

1973 - 1975

Especialização - Residência médica.
Faculdade de Medicina de Ribeirão Preto da USP. Residência médica em: Neurocirurgia
Número do registro: 6863 - CFM.
Bolsista do(a): Faculdade de Medicina de Ribeirão Preto da USP.
Palavras-chave: neurologia; neurocirurgia.
Grande área: Ciências da Saúde / Área: Medicina,
Grande Área: Ciências da Saúde / Área: Medicina / Subárea: Cirurgia.
Grande Área: Ciências da Saúde / Área:

Medicina / Subárea: Cirurgia / Especialidade: Neurocirurgia.
Setores de atividade: Atividades de atenção à saúde humana.

1996 - 1997

Especialização em NEUROLOGIA. (Carga Horária: 2760h).
Conselho Feceral de Medicina - PR.
Título: Neorologia.

1975 - 1977

Especialização em Neurocirurgia. (Carga Horária: 2760h).
Sociedade Brasileira de Neurocirurgia.
Título: Neurocirurgia.

1967 - 1972

Graduação em medicina.
Universidade Federal do Rio Grande do Sul, UFRGS, Brasil.

Atuação Profissional

Hospital UNiversitário do Oeste do Paraná, HUOP, Brasil.

Vínculo institucional

2010 - Atual

Vínculo: Professor Colaborador, Enquadramento Funcional: Professor da Residência Médica, Carga horária: 2

Outras informações

Ministrante da Disciplina: Neurologia, no Programa de Residência Médica em Clínica Médica.

Vínculo institucional

1993 - Atual

Vínculo: Médico contratado, Enquadramento Funcional: contrato particular, Carga horária: 20

Neuroclínica - Clínica de Neurologia, NEUCL, Brasil.

Vínculo institucional

1980 - Atual

Vínculo: Médico - sócio-proprietário, Enquadramento Funcional: Médico, Carga horária: 40

Vínculo institucional

1980 - Atual

Vínculo: sócio-proprietário, Enquadramento Funcional: Cirugião, Carga horária: 40

Hospital Policlínica Cascavel, HPC, Brasil.

Vínculo institucional

1980 - Atual

Vínculo: Médico Neurocirurgião, Enquadramento Funcional: Médico Neurocirurgião, Carga horária: 10

Áreas de atuação

Idiomas

Inglês

Compreende Bem, Fala Razoavelmente, Lê Bem, Escreve Razoavelmente.

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04/13/2026

To Whom It May Concern,

I am Daniel de Sousa Albino, currently serving as Zone Health Advocate and In-Country Lead for the Remote Services Center at Siemens Healthineers Brazil. I have been with Siemens Healthineers for over three decades, beginning my career as a Senior Field Service Technician and later transitioning into leadership roles in regional service operations and customer support centers. Over the past twelve years, I have held management positions overseeing technical teams responsible for maintaining and supporting advanced medical imaging systems across Brazil.

I first became familiar with Julio Conforto through professional recommendations from members of my team, particularly individuals directly involved in second-level support for magnetic resonance imaging systems. Based on consistent feedback regarding his technical abilities and proactive mindset, I brought Mr. Conforto into the First Level Support team for MRI under my supervision in October 2022. I worked closely with him until April 2025, during which time I had the opportunity to directly observe his performance, problem-solving approach, and contributions to our operations.

In his role, Mr. Conforto demonstrated a strong ability to resolve complex technical issues remotely, often guiding hospital staff through detailed diagnostic and corrective procedures over the phone. This type of work requires not only a deep understanding of imaging systems but also the ability to communicate clearly with non-specialized personnel in high-pressure situations. His effectiveness in this environment enabled many issues to be resolved without on-site intervention, contributing to faster restoration of equipment functionality and improved service continuity.

Moreover, he excelled in identifying underlying causes of recurring technical issues and formally documented them in Product Performance Issues, internal reports used to propose improvements to equipment and software. These contributions extended beyond immediate problem resolution and supported broader enhancements globally within Siemens Healthineers. His work reflected an understanding of both operational efficiency and long-term product reliability.

Another aspect of his performance that stood out was his reliability and commitment to team operations. He frequently made himself available to cover support schedules when colleagues were assigned to field service tasks, ensuring that critical support functions remained uninterrupted. This level of engagement directly impacted service quality and responsiveness for healthcare providers.

Mr. Conforto was formally recognized in 2024 for his contributions to the MRI support team, which reflects both his individual performance and the value he brought to the organization. His work also earned consistent recognition from experienced engineers within our group, further reinforcing the credibility of his technical expertise.

Based on my experience supervising Mr. Conforto, I am confident in his ability to operate in demanding technical environments and to contribute meaningfully to complex systems that require both precision and accountability. His professional maturity, combined with his technical capabilities, supports my strong recommendation.

Sincerely,

Daniel de Sousa Albino
Zone Health Advocate / In Country Lead Remote Services Center
Siemens Healthineers Brazil

+55 11 95776 5340
albino.daniel@siemens-healthineers.com
www.linkedin.com/in/daniel-de-sousa-albino-56874967

Contact

albino.daniel@siemens-healthineers.com

www.linkedin.com/in/daniel-de-sousa-albino-56874967 (LinkedIn)

Key competencies

Technical Support

Field services

Medical Imaging

Daniel de Sousa Albino

LATAM Remote Services Center Manager

São Paulo, São Paulo, Brazil

Summary

25 years of service in the medical field, with the last 10 years in management roles.

Work Experience

Siemens Healthineers

36 years, 10 months

Zone Health Advocate / In country Lead Remote Services Center
November 2020 - Present (5 years, 5 months)
São Paulo, Brazil

Customer Care Center / Regional Support Center Manager
August 2015 - November 2020 (5 years, 4 months)
São Paulo

Regional Service Manager
February 2014 - August 2015 (1 year, 7 months)
Brasília area, Brazil

Senior Field Service Technician
June 1989 - February 2014 (24 years, 9 months)

Academic Background

Iba Wakigawa High School

Technical Degree in Electronics · (1996 - 1999)

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 29, 2026.

Contato

albino.daniel@siemens-healthineers.com

www.linkedin.com/in/daniel-de-sousa-albino-56874967 (LinkedIn)

Principais competências

Technical Support

Serviços de campo

Medical Imaging

Daniel de Sousa Albino

LATAM Remote Services Center Manager

São Paulo, São Paulo, Brasil

Resumo

25 anos de Serviços na área médica, sendo os 10 últimos em cargo de gestão.

Experiência

Siemens Healthineers

36 anos 10 meses

Zone Health Advocate / In country Lead Remote Services Center

novembro de 2020 - Present (5 anos 5 meses)

São Paulo, Brasil

Gerente do Customer Care Center / Regional Support Center

agosto de 2015 - novembro de 2020 (5 anos 4 meses)

São Paulo

Gerente Regional de Serviços

fevereiro de 2014 - agosto de 2015 (1 ano 7 meses)

Brasília e Região, Brasil

Tecnico Assistencia Técnica Senior

junho de 1989 - fevereiro de 2014 (24 anos 9 meses)

Formação acadêmica

Colégio Iba wakigawa

tec eletr, tec eletrônica · (1996 - 1999)

April 13, 2026

tspadari@me.com
+55 41 99934 9259

To the USCIS,

I, Thiago Spadari Soso, submit this correspondence in support of the professional career of Julio Conforto. I hold a Technology degree in Radiology at the Lutheran University of Brazil (ULBRA) and a graduate studies degree in Radiological Sciences at the Federal University of Rio Grande do Sul (UFRGS). I have been working in the diagnostic imaging field for over two decades, performing my duties at Diagnóstico Avançado por Imagem (DAPI), a nationally recognized institution in Curitiba that plays a fundamental role in philanthropic assistance and academic training affiliated with the Brazilian College of Radiology (CBR). In my daily practice, I operate highly complex magnetic resonance imaging systems and coordinate the interface between clinical routine and the technical maintenance required to ensure the continuity of healthcare services.

I first met Mr. Conforto professionally in 2017, when he was serving as a Customer Service Engineer (CSE) at Siemens Healthineers. Our initial contact occurred during a critical technical intervention for the replacement of a gradient coil in a Magnetom Skyra system. Since then, we have maintained a continuous technical collaboration. I have had the opportunity to follow his work on several occasions, observing his ability to translate complex physical principles into practical maintenance guidelines, which allowed me to operate in a coordinated manner under his supervision.

I was able to observe the depth of Mr. Conforto's technical expertise and operational leadership capabilities during an emergency situation involving a 3-Tesla Magnetom VIDA Fit system. On one occasion, when the system experienced a critical breakdown and the clinic had a fully booked schedule with over twenty patients waiting for exams, which could not be transferred to lower-power system, Mr. Conforto took charge of coordinating the response. Due to the unavailability of engineers for immediate on-site dispatch, he guided me remotely through a series of highly complex diagnostics and tests. While executing remote systemic verifications, he provided precise, step-by-step instructions for me to perform physical procedures on-site. Thanks to his assertive leadership, the system was restored to operation within approximately one hour, securing the execution of all scheduled exams and preventing significant operational and clinical losses for the institution.

This interaction exemplifies the defining feature of his professional approach, which combines immediate troubleshooting with the technical capacity-building of the professionals operating the systems. Mr. Conforto demonstrated a commitment that

extends far beyond mechanical repairs, focusing on systemic efficiency and the minimization of downtime in hospital environments. His willingness to share technical knowledge transformed how our team handled initial complications, establishing a more agile and well-founded support environment. His competence in managing technological crises remotely, while maintaining composure and instructional clarity, evidences a level of professional maturity rarely found in this sector.

The accumulated experience of Mr. Julio Conforto in supporting highly complex institutions and his track record of successful interventions in advanced medical technology systems provide a solid foundation for his future endeavors. His professional career demonstrates that he possesses the technical attributes and professional integrity required to lead initiatives that demand high specialization and operational impact. Based on the professional collaboration we have maintained over the years, I offer my full and unreserved support for his career advancement, confident that his work will continue to elevate the standards of quality and reliability in clinical engineering.

Sincerely,



Thiago Spadari Soso
Radiology Technologist
DAPI - Diagnóstico Avançado por Imagem

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 30, 2026.

13 de abril de 2026

tspadari@me.com
+55 41 99934 9259

Para a USCIS,

Eu, Thiago Spadari Soso, submeto esta correspondência em apoio à trajetória profissional de Julio Conforto. Sou tecnólogo em Radiologia pela Universidade Luterana do Brasil (ULBRA) e possuo Pós-Graduação em Ciências Radiológicas pela Universidade Federal do Rio Grande do Sul (UFRGS). Atuo na área de diagnóstico por imagem há mais de duas décadas, exercendo minhas atividades no Diagnóstico Avançado por Imagem (DAPI), uma instituição de referência nacional em Curitiba que desempenha um papel fundamental na assistência filantrópica e na formação acadêmica vinculada ao Colégio Brasileiro de Radiologia (CBR). Em minha prática cotidiana, opero sistemas de ressonância magnética de alta complexidade e coordeno a interface entre a rotina clínica e a manutenção técnica necessária à continuidade dos serviços de saúde.

Conheci o Sr. Conforto profissionalmente em 2017, quando ele atuava como Engenheiro de Serviços ao Cliente (Customer Service Engineer - CSE) da Siemens Healthineers. O contato inicial ocorreu durante uma intervenção técnica crítica para a substituição de uma bobina de gradiente em um equipamento Magnetom Skyra. Desde então, mantemos uma colaboração técnica contínua. Tive a oportunidade de acompanhar seu trabalho em diversos momentos, observando sua capacidade de traduzir princípios físicos complexos em orientações práticas de manutenção, o que me permitiu atuar de forma coordenada sob sua supervisão.

Pude observar a profundidade do conhecimento técnico e a capacidade de liderança operacional do Sr. Conforto em uma situação de extrema urgência envolvendo um equipamento Magnetom VIDA Fit de 3 Tesla. Em uma ocasião em que o sistema parou de funcionar e a clínica possuía uma agenda completa, com mais de vinte pacientes aguardando exames que não podiam ser transferidos para equipamentos de menor potência, o Sr. Conforto assumiu a coordenação do atendimento. Devido à indisponibilidade de engenheiros para deslocamento presencial imediato, ele me orientou remotamente por meio de uma série de diagnósticos e testes de alta complexidade. Enquanto executava verificações sistêmicas à distância, ele me instruiu com precisão para realizar procedimentos físicos no local. Graças à sua condução assertiva, o equipamento foi restabelecido em aproximadamente uma hora, garantindo a realização de todos os exames agendados e evitando prejuízos operacionais e clínicos significativos para a instituição.

Essa interação exemplifica o diferencial de sua atuação, que combina a resolução imediata de falhas com a capacitação técnica dos profissionais que operam os sistemas. O Sr. Conforto demonstrou ter um compromisso que vai além do reparo

mecânico, com foco na eficiência sistêmica e na minimização do tempo de inatividade em ambientes hospitalares. Sua disposição para compartilhar conhecimentos técnicos transformou a forma como nossa equipe lidava com intercorrências iniciais, criando um ambiente de suporte mais ágil e bem fundamentado. Sua competência para gerir crises tecnológicas à distância, mantendo a calma e a clareza didática, evidencia um nível de maturidade profissional pouco comum no setor.

A experiência acumulada por Julio Conforto no suporte a instituições de alta complexidade e seu histórico de intervenções bem-sucedidas em sistemas de tecnologia médica avançada fornecem uma base sólida para suas atividades futuras. Sua trajetória demonstra que ele possui os atributos técnicos e a integridade profissional necessários para liderar iniciativas que exijam alta especialização e impacto operacional. Com base na colaboração profissional que mantivemos ao longo de anos, ofereço meu apoio integral à sua progressão na carreira, confiante de que sua atuação continuará a elevar os padrões de qualidade e confiabilidade na engenharia clínica.

Atenciosamente,

Thiago Spadari Soso
Tecnólogo em Radiologia
DAPI - Diagnóstico Avançado por Imagem

Contact

tspadari@me.com

www.linkedin.com/in/thiago-spadari-soso-5316844a (LinkedIn)

Thiago Spadari Soso

Technologist at Dapi
Curitiba, Paraná, Brazil

Work Experience

DAPI - Diagnóstico Avançado por Imagem
Radiology Technologist
August 2005 - Present (20 years, 8 months)
Curitiba Area, Brazil

Academic Background

Federal University of Rio Grande do Sul
Graduate Studies Degree in Radiological Sciences, Radiodiagnosis · (2001 - 2002)

Lutheran University Of Brazil
Technology Degree in Radiology, Radiodiagnosis · (1997 - 2000)

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Date: July 29, 2026.

Contato

tspadari@me.com

www.linkedin.com/in/thiago-spadari-soso-5316844a (LinkedIn)

Thiago Spadari Soso

Tecnologo na Dapi
Curitiba, Paraná, Brasil

Experiência

DAPI - Diagnóstico Avançado por Imagem

Tecnólogo de radiologia
agosto de 2005 - Present (20 anos 8 meses)
Curitiba e Região, Brasil

Formação acadêmica

Federal University of Rio Grande do Sul

Pós Graduação em Ciências Radiológicas, Radiodiagnóstico · (2001 - 2002)

Universidade Luterana do Brasil

Superior de Tecnologia em Radiologia, Radiodiagnóstico · (1997 - 2000)

C.II - Second Prong: Evidence of High Salary and Financial Feasibility

2025 Incentive Target Agreement Form NSM for JULIO CONFORTO

Employee Information

Name:	CONFORTO, JULIO
GID:	Z003B8DE
Department:	SHS AM LAM CS BRA STH
Location:	CUR MD
Manager:	MARCOS NEVES DE OLIVEIRA
ARE:	469H

General Information

Originator:	Bruna Boldrini
Department:	SHS HR TR R AM-C LAM
Email:	bruna.boldrini@siemens-healthineers.com
Date:	Jun 1, 2025
Review Period:	Oct 1, 2024 - Apr 7, 2025

This target agreement applies to the calculation of your variable compensation component for this fiscal year for the specified review period and is an integral part of your employment contract /relationship.

Your target agreement consists of Unit Targets (provided below).

Unit Performance (Unit Targets)

Target:	Metrics:	Weighting:
Siemens Healthineers - Adjusted basic Earnings Per Share (Incentive relevant)	EUR	50.00 %

Bonus Line:	Bonus Line Value:
0.00 %	1.91
100.00 %	2.46
200.00 %	3.01

Description:

Adjusted basic earnings per share are defined as basic earnings per share, adjusted for expenses for mergers, acquisitions, disposals and other portfolio related measures, in particular amortization, depreciation and other effects from IFRS 3 purchase price allocation adjustments, transaction, integration, retention and carve-out costs, gains and losses from divestments as well as severance charges, and other expenses in connection with restructuring measures within the meaning of IAS 37 (since fiscal year 2024). The adjustments (including revenue) relate to income and expenses that do not reflect operating performance and therefore adversely affect the comparability of financial results between periods. For this reason, other restructuring expenses are also adjusted since fiscal year 2024. The adjustments are made after tax. Accordingly, this includes the adjustment of material valuation effects on deferred taxes, which arise from changes in tax law and are associated with the above adjustment items. Tax effects on the adjustments are determined based on the income tax rate. Determination of adjusted basic EPS is based on the average weighted number of outstanding shares. No recognition of special effects besides major currency and portfolio effects as well as major revenue and cost effects from transformations and strategic repositionings against budget; values rounded to 2 digits.

Target:	Metrics:	Weighting:
SHS AM LAM - Weighted Zone Business Area Comparable revenue growth (Incentive relevant)	%	50.00 %

Bonus Line:	Bonus Line Value:
0.00 %	0.00
100.00 %	100.00
200.00 %	200.00

Description:

Year-over-year on a comparable basis, excluding currency translation, portfolio effects and effects in line with revaluation of contract liabilities from IFRS 3 purchase price allocations as well as major revenue effects from transformations and strategic repositionings against budget. Zone Revenue will be defined/reported in the reporting dimension „CRM-View“. This Reporting dimension was established in order to reflect regional accountabilities. It is defined as own business of a sales company plus the commission business from HQ-companies into the respective Zone sales company; values rounded to 2 digits. Zone weighted by Zone BA (DI incl. CTH, AT and US) absolute FC2 FY25 revenue: Zone BA targets: DI target 100% = 7.85%; 200% = 17.35% (revenue weighting 82.48%), AT target 100% = 11.56%; 200% = 21.56% (revenue weighting 13.74%), US target 100% = 12.51%; 200% = 27.51% (revenue weighting 3.78%). For Zone BA DI the respective complete Zone VAR CTH business is included in target setting/achievemen

Signature Field

If you have any questions, please contact your manager or your local People & Organization. Please treat the information in this Target Agreement Form as confidential.

Siemens Healthcare Diagnósticos Ltda.

CTPS (Employment Record Book) Annotation and Update Sheet

Siemens Healthcare Diagnósticos Ltda.
01.449.930/0001-90

WORKPLACE

Establishment:	Siemens Healthcare Diagnósticos Ltda.			Head Office/Branch:	Branch
CNPJ:	01.449.930/0010-80	State Registration:			
Address:	Marechal Deodoro	No.:	630	Unit:	SUITE 807, ITÁLIA BUILDING
Neighborhood:	Centro	ZIP Code:	80010010	Telephone:	11 4585-2080
City:	Curitiba	State/Country:	PR, Brazil		

PERSONAL INFORMATION

Name:	JULIO CONFORTO				
Sex:	Male	Marital Status:	Single	Student:	No
Place of Birth:	Maringá	State/Country:	PR, Brazil	Date of Birth:	07/26/1991
Identity Card:	102402014 - SSP/PR	CTPS:	277088500020PR	CPF:	07952343920
PIS/PASEP:	20006028475	First Employment:	No	Voter ID No.:	96295810639 -31 -43
Driver's License:	–	Military Reg. Cert.:	151122281513	Education:	Master's Degree

FILIATION

Father: JOAO PEDRO CONFORTO — Mother: FATIMA CARRARO CONFORTO

RESIDENTIAL ADDRESS

Street/Ave:	Coronel Joaquim Ignácio Taborda Ribas	No.:	727	Unit:	Apartment 1003
Neighborhood:	Bigorrilho	ZIP Code:	80730330	Telephone:	–
City:	Curitiba	State/Country:	PR, Brazil		

DEPENDENTS

Name	Relationship	Sex	Date of Birth	Income Tax	Family Allowance
DIESSICA DE AZEVEDO	Partner	Female	01/14/1991	No	No

EMPLOYEE INFORMATION

Employee ID:	33053578	Hire Date:	10/01/2014	Employment Type:	CLT Employee
MTE Registration:	33053578	FGTS Option Date:	10/01/2014		
FGTS Bank:	Caixa Econômica Federal	FGTS Branch:	0256-9 - CEF	FGTS Account:	0

Remarks: 60-day probationary contract; this period may be extended by 0 days in accordance with the signed contract.
Company: Siemens Healthcare Diagnósticos Ltda. Date: Curitiba, October 1, 2014

Payroll Bank:	Itaú Unibanco	Payroll Branch:	0318 - CAMPO MOURÃO PR	Payroll Account:	000011696-9
Employment Status:	Terminated	Termination Date:	04/07/2025	Termination Date Including Notice Period	
Remarks:	60-day pay in lieu of notice.			Projection:	06/06/2025

CURRENT POSITION

Position:	TECHNICAL SUPPORT ENGINEER - SHS	Job Title:	TECHNICAL SUPPORT ENGINEER - SHS	Effective Date:	04/01/2021
CBO:	2143-05	Salary Type:	Monthly	Monthly Salary:	13,614.25
Status:	Inactive				

CTPS (Employment Record Book) Annotation and Update Sheet

Siemens Healthcare Diagnósticos Ltda.
01.449.930/0001-90

UNION INFORMATION

Labor Union:	UNION OF WORKERS IN THE ELEC. & ELECTRONIC APPLIANCE INDS. OF CURITIBA			CNPJ:	82678012000134
Address:	Rua GUARARAPES 1656	No.		Unit:	
Neighborhood:	VILA IZABEL	ZIP CODE:	80320210	Telephone:	-
City:	Curitiba	State/Country:	PR Brazil	Territorial Jurisdiction: Curitiba	

Contribution	Period Tax	Year Contribution Amount
11/2014	2014	155.77
03/2015	2015	168.51
03/2016	2016	168.51

UNION INFORMATION

Labor Union:	UNION OF METALWORKERS IN THE ELEC. MATERIALS INDUSTRY OF JOINVILLE			CNPJ:	83796995000176
Address:	Rua Ministro Calógeras	No.:	469	Unit:	
Neighborhood:	BUCAREIN	ZIP Code:	89202207	Telephone:	11-00000000
City:	Joinville	State/Country:	SC Brazil	Territorial Jurisdiction: Joinville	

Contribution	Period Tax	Year Contribution Amount
03/2017	2017	191.22

SALARY HISTORY

Start Date	Historical Date	Reason	Monthly Salary	Adjustment %
10/01/2014	10/01/2014	HIRING	4,673.00	0.000000
12/01/2014	12/01/2014	SALARY RANGE RECLASSIFICATION	4,673.00	0.000000
03/01/2015	03/01/2015	COLLECTIVE BARGAINING AGREEMENT (CBA)	5,055.25	8.179970
08/01/2015	08/01/2015	SALARY RANGE RECLASSIFICATION	5,055.25	0.000000
03/01/2016	03/01/2016	COLLECTIVE BARGAINING AGREEMENT	5,459.67	8.000000
09/01/2016	09/01/2016	COLLECTIVE BARGAINING AGREEMENT	5,568.86	1.999938
03/01/2017	03/01/2017	MERIT INCREASE	5,736.48	3.009952
06/01/2017	04/01/2017	COLLECTIVE BARGAINING AGREEMENT	6,023.30	-8.695685
06/01/2017	05/01/2017	EMPLOYER DISCRETIONARY INCREASE	6,596.95	14.999965
06/01/2017	05/01/2017	INDIVIDUAL SALARY INCREASE ADJUSTMENT/CBA	6,926.80	15.000083
04/01/2018	03/01/2018	COLLECTIVE BARGAINING AGREEMENT	7,065.34	-2.857088
04/01/2018	04/01/2018	MERIT INCREASE	7,273.14	5.000000
04/01/2018	04/01/2018	INDIVIDUAL SALARY INCREASE ADJUSTMENT/CBA	7,418.60	4.999901
11/01/2019	11/01/2019	INDIVIDUAL SALARY INCREASE ADJUSTMENT/CBA	7,729.23	4.187178
03/01/2021	03/01/2021	CBA - PRORATED/ADJUSTMENT	8,032.22	3.920054
09/01/2021	09/01/2021	TRANSFER	10,040.28	25.000062
09/01/2021	06/01/2021	RETROACTIVE CBA	10,943.90	8.999948
11/01/2022	06/01/2022	RETROACTIVE CBA	12,290.00	12.300003
02/01/2024	06/01/2023	RETROACTIVE CBA	12,965.95	5.500000
10/01/2024	06/01/2024	RETROACTIVE CBA	13,614.25	5.000019

CTPS (Employment Record Book) Annotation and Update Sheet

Siemens Healthcare Diagnósticos Ltda.
01.449.930/0001-90

POSITIONS HELD

Start Date	Job Title	Position	Reason	C.H.A.	U.W.A.	H.W.A.
08/01/2015	12663 - JR TECHNICAL SUPPORT ENGINEER	12663 - JR TECH SUP ENGINEER		No	No	No
07/01/2018	15611 - JR HEALTHCARE TECH SUPPORT ENGINEER	15611 - JR HC TECH SUP ENGINEER		No	No	No
06/01/2019	15612 - HEALTHCARE TECH SUPPORT ENGINEER	15612 - HC TECH SUP ENGINEER		No	No	No
04/01/2021	70201 - TECHNICAL SUPPORT ENGINEER SHS	70201 - TECH SUP ENGINEER - SHS	POSITION CHANGE	No	No	No

ASSIGNMENT HISTORY

Start Date	Establishment	Establishment CNPJ	Cost Center
10/01/2014	0009 - Siemens Ltda.	44.013.159/0009-73	75500119.0004 - 75500119_HC CX BR CX-CS SE CUR REG1
08/01/2015	0001 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0001-90	80920208.0002 - 80920208_HC CX BR CX-CS SE CUR REG1
10/01/2015	0001 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0001-90	80920208.0003 - 80920208_HC LAM BRA SV CS SE CUR
05/02/2016	0001 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0001-90	80920208.0004 - 80920208_HC LAM BRA SV CS SE CUR_PR-CUR-SIE
07/01/2016	0001 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0001-90	80920208.0009 - 80920208_HC LAM BRA SV CS SE CUR PR_CUR SIE/IM
10/01/2016	0006 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0006-02	80920208.0001 - 80920208_HC LAM BRA SV CS SE CUR
08/01/2017	0003 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0003-51	80920208.0003 - 80920208_HC LAM BRA SV CS SE CUR
10/01/2017	0010 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	80920208.0001 - 80920208_HC LAM BRA SV CS SE SOU/IVV
04/01/2018	0010 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	80920208.0062 - 80920208_SHS AM LAM BRA CS SE SOU
05/01/2018	0010 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	80920208.14 - 80920208_SERVICE IN VIVO
04/01/2019	0010 - Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	80920208.1.03 - 80920208_SERVICE IN VIVO

LEAVES OF ABSENCE

Leave Date	Leave Status	Return Date
04/07/2025	Termination of Employment	

OTHER LEAVES OF ABSENCE

Leave Date	Leave Status	Return Date
10/28/2017	Medical Leave	11/05/2017
06/18/2018	Medical Leave	06/23/2018
05/11/2024	Medical Leave	05/16/2024

CTPS (Employment Record Book) Annotation and Update Sheet

Siemens Healthcare Diagnósticos Ltda.
01.449.930/0001-90

VACATION HISTORY

Accrual Period	Vacation Period	Days Taken	Vacation Pay-out	Remarks
10/01/2014 to 09/30/2015	04/04/2016 to 05/03/2016	30	0	
10/01/2015 to 09/30/2016	09/01/2017 to 09/20/2017	20	0	
10/01/2015 to 09/30/2016	09/21/2017 to 09/30/2017	10	0	
10/01/2016 to 09/30/2017	08/27/2018 to 09/25/2018	30	0	
10/01/2017 to 09/30/2018	08/05/2019 to 09/03/2019	30	0	
10/01/2018 to 09/30/2019	06/01/2020 to 06/10/2020	10	0	
10/01/2018 to 09/30/2019	09/08/2020 to 09/27/2020	20	0	
10/01/2019 to 09/30/2020	08/02/2021 to 08/31/2021	30	0	
10/01/2020 to 09/30/2021	11/25/2021 to 12/04/2021	10	0	
10/01/2020 to 09/30/2021	09/01/2022 to 09/06/2022	06	0	
10/01/2020 to 09/30/2021	09/12/2022 to 09/25/2022	14	0	
10/01/2021 to 09/30/2022	05/22/2023 to 06/01/2023	11	0	
10/01/2021 to 09/30/2022	09/11/2023 to 09/29/2023	19	0	
10/01/2022 to 09/30/2023	12/20/2023 to 12/29/2023	10	0	
10/01/2022 to 09/30/2023	11/21/2024 to 09/09/2024	20	0	

Date:___/___/___ _____ Legal Representative: _____

Employee Employer

Ministry of Labor Ordinances No. 3,626/1991 and No. 41/2007

PR -Paraná
SC - Santa Catarina
MTE - Ministry of Labor
FGTS - Length-of-Service Guarantee Fund
PIS/PASEP - Social Integration Program / Civil Servant Fund
CEF - Caixa Econômica Federal
CLT - Consolidation of Labor Laws
CBO - Brazilian Occupation Classification
CBA - COLLECTIVE BARGAINING AGREEMENT
C.H.A. - Cash Handling Allowance
U.W.A. - Unhealthy Work Allowance
H.W.A. - Hazardous Work Allowance

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

_____ **Date: July 30, 2026**

Ficha de Anotações e Atualizações da CTPS

Siemens Healthcare Diagnósticos Ltda
01.449.930/0001-90

LOCAL DE TRABALHO

Estabelecimento:Siemens Healthcare Diagnósticos Ltda — Matriz/Filial..:Filial
CNPJ.....:01.449.930/0010-80 — Insc.Estadual..:
Endereço.....:Marechal Deodoro — Nº.....:630 — Complemento....:CONJ 807 EDIF ITALIA
Bairro.....:Centro — CEP.....:80010010 — Telefone.....:11-45852080
Município.....:Curitiba — UF/PAIS.....:PR Brasil

DADOS PESSOAIS

Nome.....:JULIO CONFORTO
Sexo.....:Masculino — Estado Civil...:Solteiro — Estudante.....:Não
Naturalidade...:Maringá — UF/PAIS.....:PR Brasil — Nascimento.....:26/07/1991
Identidade.....:102402014 SSP-PR — CTPS.....:277088500020PR — CPF.....:07952343920
PIS/PASEP.....:20006028475 — 1ºEmprego.....:Não — Tit.Eleitor....:96295810639 -31 -43
Cart.Habil.....:- — Cert. Res.....:151122281513 — Grau Instrução.:Mestrado
FILIAÇÃO:
Pai.....:JOAO PEDRO CONFORTO — Mãe.....:FATIMA CARRARO CONFORTO

ENDEREÇO RESIDENCIAL

End(Rua,Av)....:Coronel Joaquim Ignácio Taborda Ribas — No.....:727 — Complemento....:Apto 1003
Bairro.....:Bigorrilho — CEP.....:80730330 — Telefone.....:-
Município.....:Curitiba — UF/PAIS.....:PR Brasil

DEPENDENTES

Nome	Parentesco	Sexo	Nascimento	IRRF	Sal.Família
DIESSICA DE AZEVEDO	Companheir	Feminino	14/01/1991	Nao	Não

DADOS DE EMPREGADO

Matrícula.....:33053578 — Admissão.....:01/10/2014 — Vínculo.....:Trabalhador CLT
Registro no MTE:33053578 — Data Opção FGTS..:01/10/2014
Banco FGTS.....:CEF — Agência FGTS.....:0256-9 - CEF — Conta FGTS.....:0
Observações....:Contrato em caráter de experiência por 60 dias, podendo este prazo ser prorrogado por mais 0 dias conforme contrato assinado.
Empresa: Siemens Healthcare Diagnósticos Ltda Data: Curitiba, 01 de Outubro de 2014.

Banco Pagto....:Itaú Unibanco — Agência Pagto....:0318 - CAMPO MOURAO-PR — Conta Pagto.....:000011696-9
Afastamento....:Demissão — Data Desligamento:07/04/2025 — Data Desligamento com Projeção Aviso Prévio:06/06/2025
Observações....:Aviso prévio indenizado de 60 dias.

FUNÇÃO ATUAL

Função.....:ENGENHEIRO ASSIST TECNICA PL SHS — Cargo.....:ENGENHEIRO ASSIST TECNICA PL SHS — Ingresso.....:01/04/2021
CBO.....:2143-05 — Tipo Sal.....:Mensal — Sal.Mensal.....:13.614,25
Situação.....:Inativo

Ficha de Anotações e Atualizações da CTPS

Siemens Healthcare Diagnósticos Ltda
01.449.930/0001-90

INFORMAÇÕES SINDICAIS

Sindicato.....:SIN TRAB IND AP ELETRIC ELET SIM AP RADIO CUR
End(Rua,Av)....:R GUARARAPES 1656 No.....:
Bairro.....:VILA IZABEL CEP.....:80320210
Município.....:Curitiba UF/PAIS.....:PR Brasil
CNPJ.....:82678012000134
Complemento....:
Telefone.....:-
Base Territ....:Curitiba

Competência	Exercício	Valor da Contribuição
11/2014	2014	155,77
03/2015	2015	168,51
03/2016	2016	168,51

INFORMAÇÕES SINDICAIS

Sindicato.....:SIN TRAB METAL IND MAT ELETRICO JOINVILLE
End(Rua,Av)....:R MINISTRO CALOGERAS No.....:469
Bairro.....:BUCAREIN CEP.....:89202207
Município.....:Joinville UF/PAIS.....:SC Brasil
CNPJ.....:83796995000176
Complemento....:
Telefone.....:11-00000000
Base Territ....:Joinville

Competência	Exercício	Valor da Contribuição
03/2017	2017	191,22

HISTÓRICO SALARIAL

Data Vigência	Data Histórica	Motivo	Sal.Mensal	% Reajuste
01/10/2014	01/10/2014	ADMISSÃO	4.673,00	0,000000
01/12/2014	01/12/2014	RECLASSIFICAÇÃO FXS SALARIAIS	4.673,00	0,000000
01/03/2015	01/03/2015	CONVENÇÃO COLETIVA	5.055,25	8,179970
01/08/2015	01/08/2015	RECLASSIFICAÇÃO FXS SALARIAIS	5.055,25	0,000000
01/03/2016	01/03/2016	CONVENÇÃO COLETIVA	5.459,67	8,000000
01/09/2016	01/09/2016	CONVENÇÃO COLETIVA	5.568,86	1,999938
01/03/2017	01/03/2017	MÉRITO	5.736,48	3,009952
01/06/2017	01/04/2017	CONVENÇÃO COLETIVA	6.023,30	-8,695685
01/06/2017	01/05/2017	LIBERALIDADE	6.596,95	14,999965
01/06/2017	01/05/2017	AJUSTE DE AUM IND POR CCT	6.926,80	15,000083
01/04/2018	01/03/2018	CONVENÇÃO COLETIVA	7.065,34	-2,857088
01/04/2018	01/04/2018	MÉRITO	7.273,14	5,000000
01/04/2018	01/04/2018	AJUSTE DE AUM IND POR CCT	7.418,60	4,999901
01/11/2019	01/11/2019	CONVENÇÃO COLETIVA - PROP/CORR	7.729,23	4,187178
01/03/2021	01/03/2020	CONVENÇÃO COLETIVA RETROATIVA	8.032,22	3,920054
01/09/2021	01/09/2021	TRANSFERÊNCIA	10.040,28	25,000062
01/09/2021	01/06/2021	CONVENÇÃO COLETIVA RETROATIVA	10.943,90	8,999948
01/11/2022	01/06/2022	CONVENÇÃO COLETIVA RETROATIVA	12.290,00	12,300003
01/02/2024	01/06/2023	CONVENÇÃO COLETIVA RETROATIVA	12.965,95	5,500000
01/10/2024	01/06/2024	CONVENÇÃO COLETIVA RETROATIVA	13.614,25	5,000019

Ficha de Anotações e Atualizações da CTPS

Siemens Healthcare Diagnósticos Ltda
01.449.930/0001-90

FUNÇÕES EXERCIDAS

Data de Alteração	Cargo	Função	Motivo	Q. Caixa	Insal.	Pericul.
01/08/2015	12663 - ENGENHEIRO ASSISTENCIA T	12663 - ENGENHEIRO ASSISTENCIA TECNICA JR		Não	Não	Não
01/07/2018	15611 - ENGENHEIRO ASSIST TECNIC	15611 - ENGENHEIRO ASSIST TECNICA HEA JR		Não	Não	Não
01/06/2019	15612 - ENGENHEIRO ASSIST TECNIC	15612 - ENGENHEIRO ASSIST TECNICA HEA PL		Não	Não	Não
01/04/2021	70201 - ENGENHEIRO ASSIST TECNIC	70201 - ENGENHEIRO ASSIST TECNICA PL SHS	ALTERAÇÃO DE FUNÇÃO	Não	Não	Não

HISTÓRICO DE LOTAÇÃO

Ingresso	Estabelecimento	CNPJ do Estabelecimento	Centro de Resultado
01/10/2014	0009 - SIEMENS LTDA	44.013.159/0009-73	75500119.0004 - 75500119_HC CX BR CX-CS SE CUR REG1
01/08/2015	0001 - SIEMENS HEALTHCARE DIAGNOSTICO	01.449.930/0001-90	80920208.0002 - 80920208_HC CX BR CX-CS SE CUR REG1
01/10/2015	0001 - SIEMENS HEALTHCARE DIAGNOSTICO	01.449.930/0001-90	80920208.0003 - 80920208_HC LAM BRA SV CS SE CUR
02/05/2016	0001 - SIEMENS HEALTHCARE DIAGNOSTICO	01.449.930/0001-90	80920208.0004 - 80920208_HC LAM BRA SV CS SE CUR_PR-CUR-SIE
01/07/2016	0001 - SIEMENS HEALTHCARE DIAGNOSTICO	01.449.930/0001-90	80920208.0009 - 80920208_HC LAM BRA SV CS SE CUR_PR-CUR-SIE/IM
01/10/2016	0006 - SIEMENS HEALTHCARE DIAGNOSTICO	01.449.930/0006-02	80920208.0001 - 80920208_HC LAM BRA SV CS SE CUR
01/08/2017	0003 - SIEMENS HEALTHCARE DIAGNOSTICO	01.449.930/0003-51	80920208.0003 - 80920208_HC LAM BRA SV CS SE CUR
01/10/2017	0010 - SIEMENS HEALTHCARE DIAGNÓSTICO	01.449.930/0010-80	80920208.0001 - 80920208_HC LAM BRA SV CS SE SOU/IVV
01/04/2018	0010 - SIEMENS HEALTHCARE DIAGNÓSTICO	01.449.930/0010-80	80920208.0062 - 80920208_SHS AM LAM BRA CS SE SOU
01/05/2018	0010 - SIEMENS HEALTHCARE DIAGNÓSTICO	01.449.930/0010-80	80920208.14 - 80920208-SERVICE IN VIVO
01/04/2019	0010 - SIEMENS HEALTHCARE DIAGNÓSTICO	01.449.930/0010-80	80920208.1.03 - 80920208-SERVICE IN VIVO

AFASTAMENTOS

Data Afastamento	Situação do Afastamento	Retorno
07/04/2025	Demissão	

AFASTAMENTOS OUTROS

Data Afastamento	Situação do Afastamento	Retorno
28/10/2017	Atestado Médico	05/11/2017
18/06/2018	Atestado Médico	23/06/2018
11/05/2024	Atestado Médico	16/05/2024

Ficha de Anotações e Atualizações da CTPS

Siemens Healthcare Diagnósticos Ltda
01.449.930/0001-90

HISTÓRICO DE FÉRIAS

Período Aquisitivo	Período de Gozo	Dias de Gozo	Abono	Observações
01/10/2014 a 30/09/2015	04/04/2016 a 03/05/2016	30	0	
01/10/2015 a 30/09/2016	01/09/2017 a 20/09/2017	20	0	
01/10/2015 a 30/09/2016	21/09/2017 a 30/09/2017	10	0	
01/10/2016 a 30/09/2017	27/08/2018 a 25/09/2018	30	0	
01/10/2017 a 30/09/2018	05/08/2019 a 03/09/2019	30	0	
01/10/2018 a 30/09/2019	01/06/2020 a 10/06/2020	10	0	
01/10/2018 a 30/09/2019	08/09/2020 a 27/09/2020	20	0	
01/10/2019 a 30/09/2020	02/08/2021 a 31/08/2021	30	0	
01/10/2020 a 30/09/2021	25/11/2021 a 04/12/2021	10	0	
01/10/2020 a 30/09/2021	01/09/2022 a 06/09/2022	06	0	
01/10/2020 a 30/09/2021	12/09/2022 a 25/09/2022	14	0	
01/10/2021 a 30/09/2022	22/05/2023 a 01/06/2023	11	0	
01/10/2021 a 30/09/2022	11/09/2023 a 29/09/2023	19	0	
01/10/2022 a 30/09/2023	20/12/2023 a 29/12/2023	10	0	
01/10/2022 a 30/09/2023	21/08/2024 a 09/09/2024	20	0	

Data:..../..../..... ---------- ----------
Repr. Legal:

Empregado Empregador

Portarias MTE nº 3626/1991 e 41/2007

PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	13,614.25 / MONTH	FEBRUARY/28/2025

PAYMENT DATE: **02/28/2025**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	220.00	13,614.25	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		32.61	
1603	55% Overtime	2.04	195.66	
2821	Mid-Month Salary Advance			5,445.70
3579	PreviSiemens CD I			146.05
3580	PreviSiemens CD II			441.84
4303	Unimed SP – Employee			78.00
4304	Unimed SP – Dependent			78.00
5500	Income Tax Withheld			2,487.33
5560	Social Security (INSS)			951.62
7655	Meal Voucher			220.00
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			12,303.01
5561	INSS Contribution Base			8,157.41
8000	Contribution Salary			13,842.52
8002	Salary Contribution – Taxable Basis			13,842.52
1300	*FGTS Base – Current Month Remuneration			13,842.52
1330	FGTS – Current Month Remuneration			1,107.40
8010	Employee INSS Contribution Salary			13,842.52
8100	Employer INSS Contribution	20.00		2,768.50
8101	Occupational Accident Insurance (RAT)			69.21

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	13,842.52	**9,848.54**	**3,993.98**

3324 / 469 ACQR59 02/24/2025 – 9:00:46 AM

*FGTS - Length-of-Service Guarantee Fund

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: July 29, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	13.614,25/MES	28/FEVEREIRO/2025

DATA DE PAGAMENTO: ***28/02/2025***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	220,00	13.614,25	
0502 DSR (H.E./Adic.Not.)		32,61	
1603 Horas Extras 55%	2,04	195,66	
2821 Adiant Quinzenal			5.445,70
3579 PreviSiemens CD I			146,05
3580 PreviSiemens CD II			441,84
4303 UNIMED SP EMPREGAJDO			78,00
4304 UNIMED SP DEPENDENTE			78,00
5500 IR Retido			2.487,33
5560 INSS			951,62
7655 Vale Refeição			220,00
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			12.303,01
5561 Base INSS			8.157,41
8000 Salario Contribuicao			13.842,52
8002 Contribuição - Trib. Salário			13.842,52
1300 Base FGTS RecMes - Remun			13.842,52
1330 FGTS RecMes - Remun			1.107,40
8010 Salário Contribuição INSS Empregado			13.842,52
8100 Inss Empregador	20,00		2.768,50
8101 RAT			69,21

T O T A I S	VENCIMENTOS	DESCONTOS	LÍQUIDO
	13.842,52	9.848,54	3.993,98

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3324 / 469 ACQR59 24/02/2025 09:00:46

PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	13,614.25 / MONTH	JANUARY/31/2025

PAYMENT DATE: **01/31/2025**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	220.00	13,614.25	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		601.72	
1601	75% Overtime	11.18	1,210.68	
1603	55% Overtime	20.00	1,918.28	
2821	Mid-Month Salary Advance			5,445.70
3579	PreviSiemens CD I			146.05
3580	PreviSiemens CD II			441.84
4303	Unimed SP – Employee			78.00
4304	Unimed SP – Dependent			78.00
5500	Income Tax Withheld			3,450.49
5560	Social Security (INSS)			951.62
7655	Meal Voucher			220.00
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			15,805.42
5561	INSS Contribution Base			8,157.41
8000	Contribution Salary			17,344.93
8002	Salary Contribution – Taxable Basis			17,344.93
1300	*FGTS Base – Current Month Remuneration			17,344.93
1330	FGTS – Current Month Remuneration			1,387.59
8010	Employee INSS Contribution Salary			17,344.93
8100	Employer INSS Contribution	20.00		3,468.99
8101	Occupational Accident Insurance (RAT)			86.72

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	17,344.93	**10,811.70**	**6,533.23**

3324 / 469 ACQR59 01/24/2025 – 5:02:32 PM

*FGTS - Length-of-Service Guarantee Fund

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: July 29, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	13.614,25/MES	31/JANEIRO/2025

DATA DE PAGAMENTO: ***31/01/2025***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	220,00	13.614,25	
0502 DSR (H.E./Adic.Not.)		601,72	
1601 Horas Extras - 75%	11,18	1.210,68	
1603 Horas Extras 55%	20,00	1.918,28	
2821 Adiant Quinzenal			5.445,70
3579 PreviSiemens CD I			146,05
3580 PreviSiemens CD II			441,84
4303 UNIMED SP EMPREGAJDO			78,00
4304 UNIMED SP DEPENDENTE			78,00
5500 IR Retido			3.450,49
5560 INSS			951,62
7655 Vale Refeição			220,00
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			15.805,42
5561 Base INSS			8.157,41
8000 Salario Contribuicao			17.344,93
8002 Contribuição - Trib. Salário			17.344,93
1300 Base FGTS RecMes - Remun			17.344,93
1330 FGTS RecMes - Remun			1.387,59
8010 Salário Contribuição INSS Empregado			17.344,93
8100 Inss Empregador	20,00		3.468,99
8101 RAT			86,72

	VENCIMENTOS	DESCONTOS	LÍQUIDO
T O T A I S	17.344,93	10.811,70	6.533,23

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entive Calculation [1]

	GID:	Current Department:	Current Location:	Current Manager:
rto, Julio	Z003B8DE	SHS AM NAM USA CS IV-CE MKT-G...	CYA GR	Koda, Rose

Period Information

ate:	End Date:	Days [3]:	Proration:	Department:	Location:	Manager:
2024	Apr 7, 2025	189	51.78%	SHS AM LAM CS BRA STH	CUR MD	DE OLIVEIRA, MARCOS NEVES

pany Performance

ts	Metrics	Weighting of Target	Value for 0.0%	Value for 100.0%	Value for 200.0%	Achieved	
						Actual Value	Percentage
ens Healthineers - Adjusted basic Earnings Per Share (Incentive relevant)	EUR	50.00%	1.91	2.46	3.01	2.41	91.82%
AM LAM - Weighted Zone Business Area Comparable revenue growth (Incentive relevant)	%	50.00%	0.00	100.00	200.00	95.40	95.40%

100%	Achievement of Company Performance in %	93.61%
	Total Target Achievement in %	93.61%
	Annual Target Incentive Amount in BRL	16,333.02

Results for the review period

Target Incentive Amount in BRL (possibly pro-rated)	8,457.24
Total Calculated Payout Amount in BRL [2]	7,916.82

to national and international rules and regulations all information in this statement about the targets and the achievement values has to be treated confidentially and is for internal use only.

opriate withholdings will be deducted

PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	12,290.00 / MONTH	JANUARY/31/2024

PAYMENT DATE: **01/31/2024**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	220.00	12,290.00	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		34.47	
1603	55% Overtime	0.32	27.71	
3361	Special Sales Bonus		2,974.18	
4597	Housing Allowance		2,458.00	
7049	55% Overtime – Previous Month	1.75	151.52	
2821	Mid-Month Salary Advance			4,916.00
3579	PreviSiemens CD I			139.40
3580	PreviSiemens CD II			372.40
4303	Unimed SP – Employee			72.00
4304	Unimed SP – Dependent			72.00
5500	Income Tax Withheld			3,656.73
5560	Social Security (INSS)			908.85
7655	Meal Voucher			220.00
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			16,515.23
5561	INSS Contribution Base			7,786.02
8000	Contribution Salary			17,935.88
8002	Salary Contribution – Taxable Basis			17,935.88
9921	*FGTS Base			17,935.88
8010	Employee INSS Contribution Salary			17,935.88
8100	Employer INSS Contribution	20.00		3.587.18
8101	Occupational Accident Insurance (RAT)			89.68
9920	FGTS Contribution			1,434.87

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	17,935.88	**10,357.38**	**7,578.50**

3324 / 469 ACQR59 01/25/2024 – 12:55:36 PM

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*FGTS - Length-of-Service Guarantee Fund

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: July 29, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	12.290,00/MES	31/JANEIRO/2024

DATA DE PAGAMENTO: ***31/01/2024***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	220,00	12.290,00	
0502 DSR (H.E./Adic.Not.)		34,47	
1603 Horas Extras 55%	0,32	27,71	
3361 Prêmio Especial Vendas		2.974,18	
4597 Ajuda Moradia %		2.458,00	
7049 Hora Extra 55% - Mês Anterior	1,75	151,52	
2821 Adiant Quinzenal			4.916,00
3579 PreviSiemens CD I			139,40
3580 PreviSiemens CD II			372,40
4303 UNIMED SP EMPREGAJDO			72,00
4304 UNIMED SP DEPENDENTE			72,00
5500 IR Retido			3.656,73
5560 INSS			908,85
7655 Vale Refeição			220,00
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			16.515,23
5561 Base INSS			7.786,02
8000 Salario Contribuicao			17.935,88
8002 Contribuição - Trib. Salário			17.935,88
9921 Base FGTS			17.935,88
8010 Salário Contribuição INSS Empregado			17.935,88
8100 Inss Empregador	20,00		3.587,18
8101 RAT			89,68
9920 FGTS			1.434,87

T O T A I S	VENCIMENTOS	DESCONTOS	LÍQUIDO
	17.935,88	10.357,38	7.578,50

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PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	12,290.00 / MONTH	13th Salary Advance

PAYMENT DATE: **11/30/2022**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0508	13th Salary – Advance Payment	12.00	6,145.00	
2764	Average – 13th Salary Advance		524.25	
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
4643	*FGTS Base – 13th Salary Advance			6,669.25
4663	FGTS – 13th Salary Advance			533.54

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	6,669.25	**0.00**	**6,669.25**

3324 / 469 ACQR59 11/22/2022 – 12:42:20 PM

*FGTS - Length-of-Service Guarantee Fund

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Marina Viana

Date: July 29, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	12.290,00/MES	adt. 13°

DATA DE PAGAMENTO: ***30/11/2022***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0508 13° Salário - Adiantamento	12,00	6.145,00	
2764 MÉDIA ADTO. 13° SALÁRIO		524,25	
---- -----BASE/OUTROS----- ----	-----	----------	----------
4643 Base FGTS Adto. 13° Sal.			6.669,25
4663 FGTS ADTO. 13° SAL.			533,54

	VENCIMENTOS	DESCONTOS	LÍQUIDO
T O T A I S	6.669,25	0,00	6.669,25

ADP web recursos humanos

3324 / 469 ACQR59 22/11/2022 12:42:20

2025 TAX RETURN FILING INSTRUCTIONS

U.S. NONRESIDENT ALIEN INCOME TAX RETURN

FOR THE YEAR ENDING
December 31, 2025

Prepared For:

Julio Conforto
42259 Fountain Park Dr N Apt. No. 230
Novi, MI 48375

Prepared By:

Deloitte Tax LLP
30 Rockefeller Plaza
New York, NY 10112-0015

Amount of Tax:

Total tax	$	5,876
Less: payments and credits	$	9,239
Plus: interest and penalties	$	0
Overpayment	$	3,363

Overpayment:

Credited to your estimated tax	$	0
Refunded to you	$	3,363

Make Check Payable To:

Not applicable

Mail Tax Return and Check (if applicable) To:

This return has been prepared for electronic filing and the practitioner PIN program has been elected. Please sign and return Form 8879 to our office. We will then transmit your return electronically to the IRS.

Return Must Be Mailed On Or Before:

Return federal Form 8879 to us by April 10, 2026.

Special Instructions:

Your refund will be deposited directly into your account ending in 9246. Refer to Form 1040-NR on the Direct Deposit/Debit Report for complete account information.

Form **8879** (Rev. January 2021)
Department of the Treasury
Internal Revenue Service

IRS e-file Signature Authorization

▶ **ERO must obtain and retain completed Form 8879.**
▶ **Go to www.irs.gov/Form8879 for the latest information.**

OMB No. 1545-0074

Submission Identification Number (SID) ▶

Taxpayer's name	Social security number
JULIO CONFORTO	347 47 4770
Spouse's name	Spouse's social security number

Part I Tax Return Information - Tax Year Ending December 31, 2025 (Enter year you are authorizing.)

Enter whole dollars only on lines 1 through 5.

Note: Form 1040-SS filers use line 4 only. Leave lines 1, 2, 3, and 5 blank.

1	Adjusted gross income	1	51,991.
2	Total tax	2	5,876.
3	Federal income tax withheld from Form(s) W-2 and Form(s) 1099	3	9,239.
4	Amount you want refunded to you	4	3,363.
5	Amount you owe	5	

Part II Taxpayer Declaration and Signature Authorization (Be sure you get and keep a copy of your return)

Under penalties of perjury, I declare that I have examined a copy of the income tax return (original or amended) I am now authorizing, and to the best of my knowledge and belief, it is true, correct, and complete. I further declare that the amounts in Part I above are the amounts from the income tax return (original or amended) I am now authorizing. I consent to allow my intermediate service provider, transmitter, or electronic return originator (ERO) to send my return to the IRS and to receive from the IRS **(a)** an acknowledgement of receipt or reason for rejection of the transmission, **(b)** the reason for any delay in processing the return or refund, and **(c)** the date of any refund. If applicable, I authorize the U.S. Treasury and its designated Financial Agent to initiate an ACH electronic funds withdrawal (direct debit) entry to the financial institution account indicated in the tax preparation software for payment of my federal taxes owed on this return and/or a payment of estimated tax, and the financial institution to debit the entry to this account. This authorization is to remain in full force and effect until I notify the U.S. Treasury Financial Agent to terminate the authorization. To revoke (cancel) a payment, I must contact the U.S. Treasury Financial Agent at **1-888-353-4537**. Payment cancellation requests must be received no later than 2 business days prior to the payment (settlement) date. I also authorize the financial institutions involved in the processing of the electronic payment of taxes to receive confidential information necessary to answer inquiries and resolve issues related to the payment. I further acknowledge that the personal identification number (PIN) below is my signature for the income tax return (original or amended) I am now authorizing and, if applicable, my Electronic Funds Withdrawal Consent.

Taxpayer's PIN: check one box only

☒ I authorize DELOITTE TAX LLP to enter or generate my PIN 14770 as my
ERO firm name **Enter five digits, but don't enter all zeros**
signature on the income tax return (original or amended) I am now authorizing.

☐ I will enter my PIN as my signature on the income tax return (original or amended) I am now authorizing. Check this box **only** if you are entering your own PIN **and** your return is filed using the Practitioner PIN method. The ERO must complete Part III below.

Your signature ▶ _____ Date ▶ _____

Spouse's PIN: check one box only

☐ I authorize _____ to enter or generate my PIN _____ as my
ERO firm name **Enter five digits, but don't enter all zeros**
signature on the income tax return (original or amended) I am now authorizing.

☐ will enter my PIN as my signature on the income tax return (original or amended) I am now authorizing. Check this box **only** if you are entering your own PIN **and** your return is filed using the Practitioner PIN method. The ERO must complete Part III below.

Spouse's signature ▶ _____ Date ▶ _____

Practitioner PIN Method Returns Only - continue below

Part III Certification and Authentication - Practitioner PIN Method Only

ERO's EFIN/PIN. Enter your six-digit EFIN followed by your five-digit self-selected PIN. 131913506 01
Don't enter all zeros

I certify that the above numeric entry is my PIN, which is my signature for the electronic individual income tax return (original or amended) I am now authorized to file for tax year indicated above for the taxpayer(s) indicated above. I confirm that I am submitting this return in accordance with the requirements of the Practitioner PIN method and **Pub. 1345,** Handbook for Authorized IRS *e-file* Providers of Individual Income Tax Returns.

ERO's signature ▶ NEERU GUPTA Date ▶ 02/23/2026

519995 04-01-25

ERO Must Retain This Form - See Instructions
Don't Submit This Form to the IRS Unless Requested To Do So

Tax Year 2025 e-file Jurat/Disclosure
for Form 1040 or 1040NR
using Practitioner PIN method
(with or without Electronic Funds Withdrawal)

ERO Declaration

I declare that the information contained in this electronic tax return is the information furnished to me by the taxpayer. If the taxpayer furnished me a completed tax return, I declare that the information contained in this electronic tax return is identical to that contained in the return provided by the taxpayer. If the furnished return was signed by a paid preparer, I declare I have entered the paid preparer's identifying information in the appropriate portion of this electronic return. If I am the paid preparer, under the penalties of perjury I declare that I have examined this electronic return, and to the best of my knowledge and belief, it is true, correct, and complete. This declaration is based on all information of which I have any knowledge.

ERO Signature

I am signing this Tax Return by entering my PIN below.

ERO's PIN 13191350601

(enter EFIN plus 5 self-selected numerics)

Taxpayer Declarations

Perjury Statement

Perjury Statement (1040 and 1040NR)

Under penalties of perjury, I declare that I have examined this return and accompanying schedules and statements, and to the best of my knowledge and belief, they are true, correct and complete. Declaration of preparer (other than the taxpayer) is based on all information of which the preparer has any knowledge.

Perjury Statement (1040X)

Under penalties of perjury, I declare that I have filed an original return and that I have examined this amended return, including accompanying schedules and statements, and to the best of my knowledge and belief, this amended return is true, correct, and complete. Declaration of preparer (other than taxpayer) is based on all information about which the preparer has any knowledge.

Consent to Disclosure

I consent to allow my Intermediate Service Provider, transmitter, or Electronic Return Originator (ERO) to send my return/form to IRS and to receive the following information from IRS: a) an acknowledgment of receipt or reason for rejection of transmission; b) the reason for any delay in processing or refund; and, c) the date of any refund.

Electronic Funds Withdrawal Consent

If applicable, I authorize the U.S. Treasury and its designated Financial Agent to initiate an ACH electronic funds withdrawal (direct debit) entry to the financial institution account indicated in the tax preparation software for payment of my Federal taxes owed on this return and/or payment of estimated tax, and the financial institution to debit the entry to this account. This authorization is to remain in full force and effect until I notify the U.S. Treasury Financial Agent to terminate the authorization. To revoke (cancel) a payment, I must contact the U.S. Treasury Financial Agent at 1-888-353-4537 no later than 2 business days prior to the payment (settlement) date. I also authorize the financial institutions involved in the processing of the electronic payment of taxes to receive confidential information necessary to answer inquiries and resolve issues related to the payment.

I am signing this Tax Return and Electronic Funds Withdrawal Consent, if applicable, by entering my Self-Select PIN below.

Taxpayer's PIN: 14770 Date 02232026

Spouse's PIN: _____

Form **1040-NR**

Department of the Treasury - Internal Revenue Service

U.S. Nonresident Alien Income Tax Return

2025 | OMB No. 1545-0074 | IRS Use Only - Do not write or staple in this space.

For the year Jan. 1 - Dec. 31, 2025, or other tax year beginning , 2025, ending — See separate instructions.

☐ Filed pursuant to section 301.9100-2 ☐ Combat zone ☐ Deceased Spouse

☐ Other

Your first name and middle initial	Last name	**Your identifying number** (see instr.)
JULIO	CONFORTO	347-47-4770

Home address (number and street). If you have a P.O. box, see instructions. — Apt. no.

42259 FOUNTAIN PARK DR N — 230

City, town, or post office. If you have a foreign address, also complete spaces below. — State — ZIP code

NOVI — MI — 48375

Foreign country name — Foreign province/state/county — Foreign postal code

Filing Status Check only one box.

☐ Single ☒ Married filing separately (MFS) ☐ Qualifying surviving spouse (QSS) ☐ Estate ☐ Trust

If you checked the QSS box, enter the child's name if the qualifying person is a child but not your dependent: _____

Digital Assets

At any time during 2025, did you: (a) receive (as a reward, award, or payment for property or services); or (b) sell, exchange, or otherwise dispose of a digital asset (or a financial interest in a digital asset)? (See instructions.) ..... ☐ **Yes** ☒ **No**

Dependents (see instructions)

If more than four dependents, see instructions and check here .....

	Dependent 1	Dependent 2	Dependent 3	Dependent 4
(1) First name				
(2) Last name				
(3) Identifying number				
(4) Relationship				
(5) Check if lived with you more than half of 2025	☐ Yes	☐ Yes	☐ Yes	☐ Yes
(6) Credits	☐ Child tax credit ☐ Credit for other dependents	☐ Child tax credit ☐ Credit for other dependents	☐ Child tax credit ☐ Credit for other dependents	☐ Child tax credit ☐ Credit for other dependents

Income Effectively Connected With U.S. Trade or Business

Attach Form(s) W-2, 1042-S, SSA-1042-S, RRB-1042-S, and 8288-A here. Also attach Form(s) 1099-R if tax was withheld.

If you did not get a Form W-2, see instructions.

1a	Total amount from Form(s) W-2, box 1 (see instructions) STMT 1			1a	51,991.
b	Household employee wages not reported on Form(s) W-2			1b	
c	Tip income not reported on line 1a (see instructions)			1c	
d	Medicaid waiver payments not reported on Form(s) W-2 (see instructions)			1d	
e	Taxable dependent care benefits from Form 2441, line 26			1e	
f	Employer-provided adoption benefits from Form 8839, line 31			1f	
g	Wages from Form 8919, line 6			1g	
h	Other earned income (see instructions). Enter type and amount:			1h	
i	Reserved for future use	1i			
j	Reserved for future use			1j	
k	Total income exempt by a treaty from Schedule OI (Form 1040-NR), item L, line 1(e)	1k			
z	Add lines 1a through 1h			1z	51,991.
2a	Tax-exempt interest 2a		**b** Taxable interest	2b	
3a	Qualified dividends 3a		**b** Ordinary dividends	3b	
c	Check if your child's dividends are included in **1** ☐ Line 3a		**2** ☐ Line 3b		
4a	IRA distributions 4a		**b** Taxable amount	4b	
c	Check if (see instructions) **1** ☐ Rollover		**2** ☐ QCD **3** ☐		
5a	Pensions and annuities 5a		**b** Taxable amount	5b	
c	Check if (see instructions) **1** ☐ Rollover		**2** ☐ PSO **3** ☐		
6	Reserved for future use			6	
7a	Capital gain or (loss). Attach Schedule D if required			7a	
b	Check if: ☐ Schedule D not required ☐ Includes child's capital gain or (loss)				
8	Additional income from Schedule 1 (Form 1040), line 10			8	
9	Add lines 1z, 2b, 3b, 4b, 5b, 7a, and 8. This is your **total effectively connected income**			9	51,991.
10	Adjustments to income from Schedule 1 (Form 1040), line 26. These are your **total adjustments to income**			10	
11a	Subtract line 10 from line 9. This is your **adjusted gross income**			11a	51,991.

Tax and Credits	11	Amount from line 11a (adjusted gross income)		11b	51,991.
	12	**Itemized deductions** (from Schedule A (Form 1040-NR)) or, for certain residents of India, standard deduction (see instr.)		12	2,191.
	13a	Qualified business income deduction from Form 8995 or Form 8995-A	13a		
	b	Exemptions for estates and trusts only (see instructions)	13b		
	c	Additional deductions from Schedule 1-A, line 38	13c		
	14	Add lines 12 through 13c		14	2,191.
	15	Subtract line 14 from line 11b. If zero or less, enter -0-. This is your **taxable income**		15	49,800.
	16	**Tax** (see instr.). Check if any from Form(s): 1 ☐ 8814 2 ☐ 4972 3 ☐		16	5,876.
	17	Amount from Schedule 2 (Form 1040), line 3		17	
	18	Add lines 16 and 17		18	5,876.
	19	Child tax credit or credit for other dependents from Schedule 8812 (Form 1040)		19	
	20	Amount from Schedule 3 (Form 1040), line 8		20	
	21	Add lines 19 and 20		21	
	22	Subtract line 21 from line 18. If zero or less, enter -0-		22	5,876.
	23a	Tax on income not effectively connected with a U.S. trade or business from Schedule NEC (Form 1040-NR), line 15	23a		
	b	Other taxes, including self-employment tax, from Schedule 2 (Form 1040), line 21	23b		
	c	Transportation tax (see instructions)	23c		
	d	Add lines 23a through 23c		23d	
	24	Add lines 22 and 23d. This is your **total tax**		24	5,876.
Payments and Refundable Credits	25	Federal income tax withheld from:			
	a	Form(s) W-2 STMT 2	25a	9,239.	
	b	Form(s) 1099	25b		
	c	Other forms (see instructions)	25c		
	d	Add lines 25a through 25c		25d	9,239.
	e	Form(s) 8805		25e	
	f	Form(s) 8288-A		25f	
	g	Form(s) 1042-S		25g	
	26	2025 estimated tax payments and amount applied from 2024 return		26	
	27	Reserved for future use	27		
	28	Additional child tax credit (ACTC) from Schedule 8812 (Form 1040). If you do not want to claim the ACTC, check here ☐	28		
	29	Credit for amount paid with Form 1040-C	29		
	30	Refundable adoption credit from Form 8839, line 13	30		
	31	Amount from Schedule 3 (Form 1040), line 15	31		
	32	Add lines 28, 29, 30, and 31. These are your **total other payments and refundable credits**		32	
	33	Add lines 25d, 25e, 25f, 25g, 26, and 32. These are your **total payments**		33	9,239.
Refund	34	If line 33 is more than line 24, subtract line 24 from line 33. This is the amount you **overpaid**		34	3,363.
	35a	Amount of line 34 you want **refunded to you.** If Form 8888 is attached, check here ☐		35a	3,363.
Direct deposit? See instructions.	b	Routing number 072000096	c Type: ☒ Checking ☐ Savings		
	d	Account number 6828699246			
	e	If you want your refund check mailed to an address outside the United States not shown on page 1, enter it here.			
	36	Amount of line 34 you want **applied to your 2026 estimated tax**	36		
Amount You Owe	37	Subtract line 33 from line 24. **This is the amount you owe.** For details on how to pay, go to *www.irs.gov/Payments* or see instr.		37	
	38	Estimated tax penalty (see instructions)	38		

Third Party Designee

Do you want to allow another person to discuss this return with the IRS? See instructions ☒ **Yes.** Complete below. ☐ **No**

Designee's name: NEERU GUPTA | Phone no.: +12124364340 | Personal identification number (PIN): 50601

Sign Here

Under penalties of perjury, I declare that I have examined this return and accompanying schedules and statements, and to the best of my knowledge and belief, they are true, correct, and complete. Declaration of preparer (other than taxpayer) is based on all information of which preparer has any knowledge.

Your signature | Date | Your occupation: CUSTOMER SERVICE ENGINE | If the IRS sent you an Identity Protection PIN, enter it here (see inst.)

Phone no. | Email address

Paid Preparer Use Only

Preparer's name	Preparer's signature	Date	PTIN	Check if:
NEERU GUPTA	NEERU GUPTA	02/23/26	P01500601	☐ Self-employed

Firm's name: DELOITTE TAX LLP | Phone no.: (212) 492-4000

Firm's address: 30 ROCKEFELLER PLAZA NEW YORK, NY 10112-0015 | Firm's EIN: 86-1065772

SCHEDULE A (Form 1040-NR)

Department of the Treasury
Internal Revenue Service

Itemized Deductions

Attach to Form 1040-NR.

Go to www.irs.gov/Form1040NR for instructions and the latest information.

Caution: If you are claiming a net qualified disaster loss on Form 4684, see instructions for line 7.

OMB No. 1545-0074

2025

Attachment Sequence No. **7A**

Name shown on Form 1040-NR: JULIO CONFORTO

Your identifying number: 347-47-4770

Taxes You Paid	1a	State and local income taxes	1a	2,191.		
	b	Enter the smaller of line 1a or $40,000 ($20,000 if married filing separately). If Form 1040-NR, line 11b is more than $500,000 ($250,000 if married filing separately), see instructions			1b	2,191.
Gifts to U.S. Charities	2	Gifts by cash or check. If you made any gift of $250 or more, see instructions	2			
Caution: If you made a gift and got a benefit for it, see instructions.	3	Other than by cash or check. If you made any gift of $250 or more, see instructions. You **must** attach Form 8283 if over $500	3			
	4	Carryover from prior year	4			
	5	Add lines 2 through 4			5	
Casualty and Theft Losses	6	Casualty and theft loss(es) from a federally declared disaster (other than net qualified disaster losses). Attach Form 4684 and enter the amount from line 18 of that form. See instructions			6	
Other Itemized Deductions	7	Other - from list in instructions. List type and amount:			7	
Total Itemized Deductions	8	Add the amounts in the far right column for lines 1b through 7. Also, enter this amount on Form 1040-NR, line 12			8	2,191.

For Disclosure, Privacy Act, and Paperwork Reduction Act Notice, see the Instructions for Form 1040-NR.

Schedule A (Form 1040-NR) 2025 Created 12/19/25

SCHEDULE OI (Form 1040-NR)

Department of the Treasury
Internal Revenue Service

Other Information

Attach to Form 1040-NR.
Go to www.irs.gov/Form1040NR for instructions and the latest information.
Answer all questions.

OMB No. 1545-0074

2025

Attachment Sequence No. **7C**

Name shown on Form 1040-NR
JULIO CONFORTO

Your identifying number
347-47-4770

A Of what country or countries were you a citizen or national during the tax year? BRAZIL, ITALY

B In what country did you claim residence for tax purposes during the tax year? BRAZIL

C Have you ever applied to be a green card holder (lawful permanent resident) of the United States? ☐ **Yes** ☒ **No**

D Were you ever:

1. A U.S. citizen? ☐ **Yes** ☒ **No**

2. A green card holder (lawful permanent resident) of the United States? ☐ **Yes** ☒ **No**

If you answer "Yes" to (1) or (2), see Pub. 519, chapter 4, for expatriation rules that apply to you.

E If you had a visa on the last day of the tax year, enter your visa type. If you didn't have a visa, enter your U.S. immigration status on the last day of the tax year. L1B

F Have you ever changed your visa type (nonimmigrant status) or U.S. immigration status? ☐ **Yes** ☒ **No**

If you answered "Yes," indicate the date and nature of the change:

G List all dates you entered and left the United States during 2025. See instructions.

Note: If you're a resident of Canada or Mexico **AND** commute to work in the United States at frequent intervals, **check the box for Canada or Mexico** and skip to item H ☐ Canada ☐ Mexico

Date entered United States mm/dd/yy	Date departed United States mm/dd/yy
08/31/25	

Date entered United States mm/dd/yy	Date departed United States mm/dd/yy

H Give number of days (including vacation, nonworkdays, and partial days) you were present in the United States during: 2023 0 , 2024 0 , and 2025 123 .

I Did you file a U.S. income tax return for any prior year? ☐ **Yes** ☒ **No**

If "Yes," give the latest year and form number you filed:

J Are you filing a return for a trust? ☐ **Yes** ☒ **No**

If "Yes," did the trust have a U.S. or foreign owner under the grantor trust rules, make a distribution or loan to a U.S. person, or receive a contribution from a U.S. person? ☐ **Yes** ☐ **No**

K Did you receive total compensation of $250,000 or more during the tax year? ☐ **Yes** ☒ **No**

If "Yes," did you use an alternative method to determine the source of this compensation? ☐ **Yes** ☐ **No**

L Income Exempt From Tax - If you are claiming exemption from income tax under a U.S. income tax treaty with a foreign country, complete (1) through (3) below. See Pub. 901 for more information on tax treaties.

1. Enter the name of the country, the applicable tax treaty article, the number of months in prior years you claimed the treaty benefit, and the amount of exempt income in the columns below. Attach Form 8833 if required. See instructions.

(a) Country	**(b)** Tax treaty article	**(c)** Number of months claimed in prior tax years	**(d)** Amount of exempt income in current tax year

(e) Total. Enter this amount on Form 1040-NR, line 1k. Do not enter it anywhere else on line 1

2. Were you subject to tax in a foreign country on any of the income shown in 1(d) above? ☐ **Yes** ☐ **No**

3. Are you claiming treaty benefits pursuant to a Competent Authority determination? ☐ **Yes** ☐ **No**

If "Yes," attach a copy of the Competent Authority determination letter to your return.

M Check the applicable box if:

1. This is the first year you are making an election to treat income from real property located in the United States as effectively connected with a U.S. trade or business under section 871(d). See instructions ☐

2. You have made an election in a previous year that has not been revoked, to treat income from real property located in the United States as effectively connected with a U.S. trade or business under section 871(d). See instructions ☐

SCHEDULE B (Form 1040)

Department of the Treasury
Internal Revenue Service

Interest and Ordinary Dividends

Attach to Form 1040 or 1040-SR.
Go to www.irs.gov/ScheduleB for instructions and the latest information.

OMB No. 1545-0074

2025

Attachment Sequence No. **08**

Name(s) shown on return

Your social security number

JULIO CONFORTO

347 47 4770

Part I Interest

Note: If you received a Form 1099-INT, Form 1099-OID, or substitute statement from a brokerage firm, list the firm's name as the payer and enter the total interest shown on that form.

			Amount
1	List name of payer. If any interest is from a seller-financed mortgage and the buyer used the property as a personal residence, see the instructions and list this interest first. Also, show that buyer's social security number and address:		
	COMERCIA BANK		50.
	INTEREST EXEMPT UNDER IRC SEC 871(H)		-50.
		1	
2	Add the amounts on line 1	2	
3	Excludable interest on series EE and I U.S. savings bonds issued after 1989. Attach Form 8815	3	
4	Subtract line 3 from line 2. Enter the result here and on Form 1040 or 1040-SR, line 2b	4	

Note: If line 4 is over $1,500, you must complete Part III.

Part II Ordinary Dividends

Note: If you received a Form 1099-DIV or substitute statement from a brokerage firm, list the firm's name as the payer and enter the ordinary dividends shown on that form.

			Amount
5	List name of payer:	5	
6	Add the amounts on line 5. Enter the total here and on Form 1040 or 1040-SR, line 3b	6	

Note: If line 6 is over $1,500, you must complete Part III.

Part III Foreign Accounts and Trusts

You must complete this part if you **(a)** had over $1,500 of taxable interest or ordinary dividends; **(b)** had a foreign account; or **(c)** received a distribution from, or were a grantor of, or a transferor to, a foreign trust.

Caution: If required, failure to file FinCEN Form 114 may result in substantial penalties. Additionally, you may be required to file Form 8938, Statement of Specified Foreign Financial Assets. See instructions.

		Yes	No
7a	At any time during 2025, did you have a financial interest in or signature authority over a financial account (such as a bank account, securities account, or brokerage account) located in a foreign country? See instructions		X
	If "Yes," are you required to file FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR), to report that financial interest or signature authority? See FinCEN Form 114 and its instructions for filing requirements and exceptions to those requirements		
b	If you are required to file FinCEN Form 114, list the name(s) of the foreign country(-ies) where the financial account(s) is (are) located:		
8	During 2025, did you receive a distribution from, or were you the grantor of, or transferor to, a foreign trust? If "Yes," you may have to file Form 3520. See instructions		X

Form **8889**

Department of the Treasury
Internal Revenue Service

Health Savings Accounts (HSAs)

Attach to Form 1040, 1040-SR, or 1040-NR.
Go to www.irs.gov/Form8889 for instructions and the latest information.

OMB No. 1545-0074

2025

Attachment Sequence No. **52**

Name(s) shown on Form 1040, 1040-SR, or 1040-NR

JULIO CONFORTO

Social security number of HSA beneficiary. If both spouses have HSAs, see instructions. 347-47-4770

Before you begin: Complete Form 8853, Archer MSAs and Long-Term Care Insurance Contracts, if required.

Part I HSA Contributions and Deduction.

See the instructions before completing this part. If you are filing jointly and both you and your spouse each have separate HSAs, complete a separate Part I for each spouse.

1	Check the box to indicate your coverage under a high-deductible health plan (HDHP) during 2025. See instructions			[X] Self-only [ ] Family
2	HSA contributions you made for 2025 (or those made on your behalf), including those made by the unextended due date of your tax return that were for 2025. **Do not** include employer contributions, contributions through a cafeteria plan, or rollovers. See instructions		2	
3	If you were under age 55 at the end of 2025 and, on the first day of **every** month during 2025, you were, or were considered, an eligible individual with the **same** coverage, enter $4,300 ($8,550 for family coverage). **All others,** see the instructions for the amount to enter		3	4,300.
4	Enter the amount you and your employer contributed to your Archer MSAs for 2025 from Form 8853, lines 1 and 2. If you or your spouse had family coverage under an HDHP at any time during 2025, also include any amount contributed to your spouse's Archer MSAs		4	
5	Subtract line 4 from line 3. If zero or less, enter -0-		5	4,300.
6	Enter the amount from line 5. But if you and your spouse each have separate HSAs and had family coverage under an HDHP at any time during 2025, see the instructions for the amount to enter		6	4,300.
7	If you were age 55 or older at the end of 2025, married, and you or your spouse had family coverage under an HDHP at any time during 2025, enter your additional contribution amount. See instructions		7	
8	Add lines 6 and 7		8	4,300.
9	Employer contributions made to your HSAs for 2025	290.		
10	Qualified HSA funding distributions			
11	Add lines 9 and 10		11	290.
12	Subtract line 11 from line 8. If zero or less, enter -0-		12	4,010.
13	**HSA deduction** (see instructions)		13	

Part II HSA Distributions.

If you are filing jointly and both you and your spouse each have separate HSAs, complete a separate Part II for each spouse.

14a	Total distributions you received in 2025 from all HSAs (see instructions)	14a	
b	Distributions included on line 14a that you rolled over to another HSA. Also include any excess contributions (and the earnings on those excess contributions) included on line 14a that were withdrawn by the due date of your return. See instructions	14b	
c	Subtract line 14b from line 14a	14c	
15	Qualified medical expenses paid using HSA distributions (see instructions)	15	
16	**Taxable HSA distributions.** Subtract line 15 from line 14c. If zero or less, enter -0-. Also, include this amount in the total on Schedule 1 (Form 1040), Part I, line 8f	16	
17a	If any of the distributions included on line 16 meet any of the **Exceptions to the Additional 20% Tax** (see instructions), check here [ ]		
b	**Additional 20% tax** (see instructions). Enter 20% (0.20) of the distributions included on line 16 that are subject to the additional 20% tax. Also, include this amount in the total on Schedule 2 (Form 1040), Part II, line 17c	17b	

Part III Income and Additional Tax for Failure To Maintain HDHP Coverage.

See the instructions before completing this part. If you are filing jointly and both you and your spouse each have separate HSAs, complete a separate Part III for each spouse.

18	Last-month rule	18	
19	Qualified HSA funding distribution	19	
20	**Total income.** Add lines 18 and 19. Include this amount on Schedule 1 (Form 1040), Part I, line 8f	20	
21	**Additional tax.** Multiply line 20 by 10% (0.10). Include this amount in the total on Schedule 2 (Form 1040), Part II, line 17d	21	

FORM 1040-NR WAGES RECEIVED AND TAXES WITHHELD STATEMENT 1

T S	EMPLOYER'S NAME	AMOUNT PAID	FEDERAL TAX WITHHELD	STATE TAX WITHHELD	CITY SDI TAX W/H	FICA TAX	MEDICARE TAX
T	SIEMENS MEDICAL SOLUTIONS USA, INC.	51,991.	9,239.	2,191.		3,223.	754.
	TOTALS	51,991.	9,239.	2,191.		3,223.	754.

FORM 1040-NR FEDERAL INCOME TAX WITHHELD - FORM(S) W-2 STATEMENT 2

T S -	DESCRIPTION	AMOUNT
T	SIEMENS MEDICAL SOLUTIONS USA, INC.	9,239.
	TOTAL TO FORM 1040-NR, LINE 25A	9,239.

Deloitte.

Deloitte Tax LLP
Global Employer Services
110 Morris Street
Morristown, NJ 07960

United States

Tel: +1 973 602 6000

February 23, 2026

PERSONAL & CONFIDENTIAL

Julio Conforto

E-Delivered

Dear Julio,

Thank you for accessing your tax documents on our website, please download and carefully review all of the following:

2025 Form 1040NR US Nonresident Individual Income Tax Return
2025 Tax Settlement Calculation
2025 Michigan Income Tax Return
2025 North Carolina Income Tax Return

Tax Return To Be E-filed: Due to tax authority mandates, your tax return(s) must be electronically filed. Please refer to the following document for your e-file authorization form(s):

(File Name: Conforto, Julio - 2025 US Filing Instructions.pdf).

2025 Form 8879 IRS Federal e-file Signature Authorization

Please refer to the enclosed filing instructions for each tax return. The e-file authorization form(s) must be signed and returned to us **by April 10, 2026** so that we may transmit your tax return(s) to the appropriate tax authorities prior to the filing deadline.

Please return the signed e-file authorization form(s) by following the onscreen instructions on **GlobalAdvantage** for each tax return, under the "***Tasks***" section. You will upload the signed and dated e-file authorization form(s) directly within the task. Once you have completed these actions, you will be able access a copy of the uploaded documents by accessing the "Documents" tile within GlobalAdvantage.

If we do not receive your signed e-file form(s) **by April 10, 2026** your tax return(s) may not be filed on time.

By signing and returning the e-file form(s) listed above you are authorizing Deloitte Tax to e-file your tax return(s). Please do not return the e-file form(s) until you are ready to file your tax return(s).

We have prepared this return primarily from information you provided to us. Since you have final responsibility for the tax return, prior to signing, you should carefully review the stated income, deductions, and other information to ensure no omissions or misstatements exist. We are sending you by mail any information you furnished for our use in preparing your tax return which has not previously been returned to you.

We have prepared and posted your 2025 Siemens tax adequacy calculation. Please note that a copy of the calculation has been forwarded to Siemens Global Mobility Management.

The settlement reflects a balance due from you to Siemens of $1,871. Should you have any queries, please contact us.

Sign the Tax settlement calculation and e-mail the signed copy to the following Siemens mailbox: gminternationaltaxoperations.us@siemens.com.

Please wait for Siemens to send you an official repayment request email with electronic repayment instructions (ACH or wire transfer).

Report of Foreign Bank and Financial Accounts - As a United States nonresident for 2025, you are not required to file FinCEN Form 114. For your information, this FinCEN Form 114 is required for United States tax residents who have foreign financial accounts or have signature authority over any foreign financial accounts, with an aggregate value exceeding $10,000 at any time in the year. This reporting requirement does not apply to you for 2025 as you are filing as a United States nonresident.

Reportable Transaction Disclosure – The Internal Revenue Service ("IRS") and some states have promulgated rules that require taxpayers to disclose their participation in reportable transactions by attaching a disclosure form to their federal and/or state income tax return(s) and, when necessary, filing a copy of the disclosure with the IRS and/or the applicable state agency. These rules impose significant requirements to disclose transactions. You are responsible for ensuring that you have properly disclosed all reportable transactions; failure to make required disclosure will result in substantial penalties. Deloitte Tax will not be liable for any penalties resulting from your failure to accurately and timely file any required reportable transaction disclosure.

Deloitte Tax's ability to assist you in identifying transactions requiring disclosure is limited to the information you provided as part of the tax return preparation process. We are not aware of any transactions that require disclosure and you have not informed us of any transactions that should be so disclosed. Accordingly, the return(s) contain no such disclosures. If you are aware of a transaction that you believe may constitute a reportable transaction, please contact us before filing the return(s).

Record Retention - Deloitte Tax policy, in general, is to dispose of our copies of tax returns, work papers, and other tax information that is more than twelve years old. Accordingly, we will dispose of such information in our files pertaining to you, without further notice. We do not necessarily copy for our files every item of information that you supplied to us. Your responsibility for retention of your own tax records varies, depending upon the type of tax return or other information involved. Therefore, we suggest you retain this information for the same twelve-year period. We also suggest that you should maintain indefinitely copies of tax returns and work papers and all partnership and S corporation Schedules K-1 until you dispose of your interest in the entity and tax records to support your cost or basis in your assets, gifts that you make, and other tax needs.

Paid Preparer Designation - You may indicate on your tax return if you would like to authorize Deloitte Tax as paid preparer to discuss your tax return with the IRS and certain states. This allows us to provide missing information, resolve processing issues, such as notices of mathematical errors relating to the specific return, and receive information on the status of refunds or payments. This will not apply to examination matters, under-reported income, appeals, collection notices, and other substantive issues. We have checked the box "Yes" on your tax return.

Deloitte Tax appreciates this opportunity to serve you. Please reach out to Suresh Kumar Bandaru at +16782992528 or surbandaru@deloitte.com if you have any questions or if we may be of further assistance.

Very truly yours,

Deloitte Tax LLP

Enclosures

2025 TAX RETURN FILING INSTRUCTIONS

NORTH CAROLINA INCOME TAX RETURN

FOR THE YEAR ENDING
December 31, 2025

Prepared For:

Julio Conforto
42259 Fountain Park Dr N Apt. No. 230
Novi, MI 48375

Prepared By:

Deloitte Tax LLP
30 Rockefeller Plaza
New York, NY 10112-0015

Amount of Tax:

Total tax	$	147
Less: payments and credits	$	129
Plus: interest and penalties	$	0
Balance due	$	18

Overpayment:

Not applicable

Make Check Payable To:

N.C. Dept. of Revenue

Mail Tax Return and Check (if applicable) To:

N.C. Dept. of Revenue
P.O. Box 25000
Raleigh, NC 27640-0640

Return Must Be Mailed On Or Before:

April 15, 2026

Special Instructions:

The return should be signed and dated by you.

Include your social security number and the words "2025 Form D-400" on your check.

We recommend paying your balance due via electronic funds transfer rather than by mail. Retain the payment voucher for payments made electronically. Visit the website below and follow the on-screen instructions to schedule your payment.

www.dornc.com/electronic/eft.html

D-400V (39)
9-2-25

Instructions for Form D-400V, Payment Voucher

Pay Online Now for Free!

Did you know you can submit your payment online for free? If you pay online, you do not have to print and mail the voucher.

To pay online, visit ncdor.gov or use your mobile device to scan the QR code below.

Benefits of Paying Online

- Secure and convenient
- Schedule payments in advance
- Bank drafts (free), MasterCard or Visa ($2 convenience fee for every $100 paid)
- Your payment will be processed efficiently and you will receive a payment confirmation

Prefer to Mail Your Payment?

1. Make your check or money order payable in U.S. dollars to the **NC Department of Revenue. Note:** The Department will not accept a check, money order, or cashier's check unless it is drawn on a U.S. (domestic) bank and the funds are payable in U.S. dollars.
2. Make sure the courtesy box and legal line on your check match.
3. Enter the last four digits of your SSN, Tax Year, and "D-400" on the memo line of your check or money order. If you are filing a joint return, enter the last four digits of the first SSN on your return.
4. Make sure your check or money order is signed.
5. Make sure your name, address, and daytime phone number appear on your check or money order.
6. Cut across the dotted line and send the completed voucher and your check or money order to the "Mail to" address on the voucher.

Important Reminders

- **Do not** print double sided.
- **Do not** mail the voucher if you submitted an electronic payment.
- **Do not** staple, tape, paper clip or otherwise attach your check to the voucher.
- **Do not** fold the voucher or check.
- **Do not** use a photocopy of the voucher.
- **Do not** use another person's voucher.
- **Do not** send cash.
- **Do not** make any modifications to the voucher.
- **Make sure** your signature appears on your check or money order.
- **Make sure** the correct name, address, daytime phone number, and tax year appear on the voucher and your check or money order.
- **Make sure** your full SSN is printed on the voucher and the last four digits of your SSN appear on the check or money order.

Cut Here

569211 09-12-25

D-400V (39) 9-16-08

Individual Income Payment Voucher

North Carolina Department of Revenue

347474770 CONF 4225 48375

JULIO CONFORTO

42259 FOUNTAIN PARK DR N APT NO 230 For Calendar Year 2025

NOVI MI 48375

Taxpayer/Paid Preparer: NEERU GUPTA

Date: 02-23-26 Phone: (212) 492-4000

AMOUNT OF THIS PAYMENT
This must match the amount shown on your check or money order.

$ 18.00

7270139006

20257 3474747700 0000000 06408

Mail to:
NCDOR, PO Box 25000,
Raleigh, NC 27640-0640

D-400 (39) 9-8-25 Individual Income Tax Return 2025

North Carolina Department of Revenue

< *Staple All Pages of Your Return and W-2s Here*

☐ Amended Return

DOR Use Only

For calendar year 2025, or fiscal year beginning 25 and ending

JULIO CONFORTO
42259 FOUNTAIN PARK DR N 230 Your SSN: 347474770
NOVI MI 48375 FOREI Spouse's SSN:

Filing Status ☐ 1. Single ☐ 2. Married Filing Jointly ☒ 3. Married Filing Separately ☐ 4. Head of Household ☐ 5. Qualifying Widow(er)

Are you a veteran? Yes ☐ No ☒
Is your spouse a veteran? Yes ☐ No ☐

Were you granted an automatic extension to file your 2025 federal income tax return, e.g., Form 1040? Yes ☐ No ☒

Year spouse died:

Were you a resident of N.C. for the entire year? Yes ☐ No ☒ ☐ Return for deceased taxpayer. Date of death:

Was your spouse a resident for the entire year? Yes ☐ No ☐ ☐ Return for deceased spouse. Date of death:

N.C. Education Endowment Fund: You may contribute to the N.C. Education Endowment Fund by making a contribution or designating some or all of your overpayment to the Fund. To make a contribution, enclose Form NC-EDU and your payment of $. To designate your overpayment to the Fund, enter the amount of your designation on Page 2, Line 31. *(See instructions for information about the Fund.)*

☐ Select box if you, or if married filing jointly, your spouse were out of the country on April 15, 2026, and a U.S. citizen or resident.

☐ Select box if return is filed and signed by Executor, Administrator, or Court-Appointed Personal Representative.

FS 3 PP Y DT N OC N TPRES N SPRES N VT N SVT N

CONF 4225 48375 DS N EA N TD SD FDEXT N

JULIO CONFORTO 347474770 FOREI

MI 48375

42259 FOUNTAIN PARK DR N 230 NOVI

06	51991	16		0	26C		0
07	0	18	Y	0	26E		0
09	0	20A		129	EU		
10A	0	20B		0	27		18
10B	0	21A		0	29		0
11 S Y I N		21B		0	30		0
11	0	21C		0	31		0
13	00666	21D		0	32		0
14	3463	26A		18	34		0
15	147	26B		0			
TN		PN	2124924000		PP	861065772	

7020139027

Sign Return Below | ☐ **Refund Due** | ☒ **Payment Due** 18

I declare and certify that I have examined this return and accompanying schedules and statements, and to the best of my knowledge and belief, they are true, correct, and complete.

☒ Check here if you authorize the North Carolina Department of Revenue to discuss this return and attachments with the paid preparer below.

Your Signature Date | Spouse's Signature (If filing joint return, both must sign.) Date | Contact Phone No. (Include area code)

PAID PREPARER USE ONLY If prepared by a person other than taxpayer, this certification is based on all information of which the preparer has any knowledge.

NEERU GUPTA 02-23-2026 2124924000 861065772

Paid Preparer's Signature Date | Preparer's Contact Phone Number (Include area code) | Preparer's FEIN, SSN, or PTIN

If REFUND, mail return to: N.C. DEPT. OF REVENUE, P.O. BOX R, RALEIGH, NC 27634-0001

If you ARE NOT due a refund, mail return, any payment, and D-400V to: N.C. DEPT. OF REVENUE, P.O. BOX 25000, RALEIGH, NC 27640-0640

569001 10-09-25

Last Name (First 10 Characters) CONFORTO Your Social Security Number 347474770

D-400 Line-by-Line Information

6.	Federal Adjusted Gross Income	6.	51991
7.	Additions to Federal Adjusted Gross Income	7.	0
8.	Add Lines 6 and 7	8.	51991
9.	Deductions From Federal Adjusted Gross Income	9.	0
10.	Child Deduction		
	a. Enter the number of qualifying children for whom you were allowed a federal child tax credit	10a.	0
	b. Enter the amount of the child deduction	10b.	0
11.	N.C. Standard Deduction	11.	Y
11.	N.C. Itemized Deduction	11.	N
11.	Deduction amount	11.	0
12.	a. Add Lines 9, 10b, and 11	12a.	0
	b. Subtract Line 12a from Line 8	12b.	51991
13.	Part-year Residents and Nonresidents Taxable Percentage	13.	0.0666
14.	N.C. Taxable Income	14.	3463
15.	N.C. Income Tax	15.	147
16.	Tax Credits	16.	0
17.	Subtract Line 16 from Line 15	17.	147
18.	Consumer Use Tax	18.	0
	You certify that no Consumer Use Tax is due		Y
19.	Add Lines 17 and 18	19.	147

North Carolina Income Tax Withheld

20a.	Your tax withheld	20a.	129
20b.	Spouse's tax withheld	20b.	0

Other Tax Payments

21a.	2025 estimated tax	21a.	0
21b.	Paid with extension	21b.	0
21c.	Partnership	21c.	0
21d.	S Corporation	21d.	0
22.	Additional Payments	22.	0
23.	Add Lines 20a through 22	23.	129
24.	Previous Refunds	24.	0
25.	Subtract Line 24 from Line 23	25.	129
26a.	**Tax Due**	26a.	18
26b.	Penalties	26b.	0
26c.	Interest	26c.	0
26d.	Add Lines 26b and 26c and enter the total on 26d	26d.	0
EU	Exception to Underpayment of Estimated Tax	EU	
26e.	Interest on the Underpayment of Estimated Income Tax	26e.	0
27.	**Pay this Amount**	27.	18
28.	**Overpayment**	28.	0

Amount of Refund to Apply to:

29.	Amount of Line 28 to be applied to 2026 Estimated Income Tax	29.	0
30.	N.C. Nongame and Endangered Wildlife Fund	30.	0
31.	N.C. Education Endowment Fund	31.	0
32.	N.C. Breast and Cervical Cancer Control Program	32.	0
33.	Add Lines 29 through 32	33.	0
34.	**Amount to be Refunded**	34.	0

This page must be filed with the first page of this form. 569011 10-09-25

D-400 Sch PN (39)

9-8-25

2025 Part-Year Resident and Nonresident Schedule

North Carolina Department of Revenue

DOR Use Only

If you enter a taxable percentage on Form D-400, Line 13 because you or your spouse, if married filing jointly, were not full-year residents of North Carolina during tax year 2025, you must attach this schedule to Form D-400. Importantly, you must attach both pages of this schedule to Form D-400. If you do not, the Department may be unable to process your return.

Last Name *(First 10 Characters)* CONFORTO

Your Social Security Number 347474770

A part-year resident or a nonresident who receives income from N.C. sources must complete this form to determine the percentage of total income from all sources that is subject to N.C. tax. You are a **"part-year resident"** if you moved to N.C. and became a resident during the tax year, or you moved out of N.C. and became a resident of another state during the tax year. You are a **"nonresident"** if you were not a resident of N.C. at any time during the tax year.

Important: Refer to the Instructions before completing this form.

NRT Y PYT N 22 3462

NRS N PYS N 23 51991

Part A. Residency Status

Taxpayer is: (Select applicable box)	Spouse is: (Select applicable box)
☐ Full-Year Resident ☒ Nonresident ☐ Part-Year Resident	☐ Full-Year Resident ☐ Nonresident ☐ Part-Year Resident
Date N.C. residency began — Date N.C. residency ended	Date N.C. residency began — Date N.C. residency ended

If you and your spouse were both full-year residents of N.C., stop here; do not complete Parts B and C. Do not attach Schedule PN to Form D-400.

Part B. Allocation of Income for Part-Year Residents and Nonresidents

Total Income		**COLUMN A Total Income from all Sources**	**COLUMN B Amount of Column A Attributable to N.C.**
1. Wages, Salaries, Tips, Etc.	1.	51991	3462
2. Taxable Interest	2.	0	0
3. Taxable Dividends	3.	0	0
4. Taxable Refunds, Credits, or Offsets of State and Local Income Taxes	4.	0	0
5. Alimony Received	5.	0	0
6. Business Income or (Loss)	6.	0	0
7. Capital Gain or (Loss)	7.	0	0
8. Other Gains or (Losses)	8.	0	0
9. Taxable Amount of IRA Distributions	9.	0	0
10. Taxable Amount of Pensions and Annuities	10.	0	0
11. Rental Real Estate, Royalties, Partnerships, S-Corps, Estates, Trusts, Etc.	11.	0	0
12. Farm Income or (Loss)	12.	0	0
13. Unemployment Compensation	13.	0	0
14. Taxable Portion of Social Security and Railroad Retirement Benefits	14.	0	0
15. Other Income	15.	0	0
16. Total Income	16.	51991	3462

7020039027

North Carolina Adjustments		**COLUMN A Amount from Form D-400 Schedule S**	**COLUMN B Amount of Column A Attributable to N.C.**
17. Additions			
a. Interest Income From Obligations of States Other Than N.C.	17a.	0	0
b. Deferred Gains Reinvested Into an Opportunity Fund	17b.	0	0
c. Bonus Depreciation	17c.	0	0
d. IRC Section 179 Expense	17d.	0	0
e. Other Additions to Federal Adjusted Gross Income That Relate to Gross Income	17e.	0	0
18. Total Additions	18.	0	0

Last Name (First 10 Characters) CONFORTO Your Social Security Number 347474770

Part B. Allocation of Income for Part-Year Residents and Nonresidents (continued)

			COLUMN A Amount from Form D-400 Schedule S	COLUMN B Amount of Column A Attributable to N.C.
19.	Deductions			
	a. State or Local Income Tax Refund	19a.	0	0
	b. Interest Income From Obligations of the United States or United States' Possessions	19b.	0	0
	c. Taxable Portion of Social Security and Railroad Retirement Benefits	19c.	0	0
	d. Retirement Benefits Received by **Vested** N.C. State Government, N.C. Local Government, or Federal Government Retirees, i.e. *Bailey Settlement*	19d.	0	0
	e. Bonus Asset Basis	19e.	0	0
	f. Bonus Depreciation	19f.	0	0
	g. IRC Section 179 Expense	19g.	0	0
	h. Other Deductions From Federal Adjusted Gross Income That Relate to Gross Income	19h.	0	0
20.	Total Deductions	20.	0	0
21.	Total Income Modified by N.C. Adjustments	21.	51991	3462

Part C. Part-Year Residents and Nonresidents Taxable Percentage

22.	Enter the Amount From Column B, Line 21	22.	3462
23.	Enter the Amount From Column A, Line 21	23.	51991
24.	Part-Year Residents and Nonresident Taxable Percentage	24.	0.0666

Form **1040-NR**

Department of the Treasury - Internal Revenue Service

U.S. Nonresident Alien Income Tax Return

2025 | OMB No. 1545-0074 | IRS Use Only - Do not write or staple in this space.

For the year Jan. 1 - Dec. 31, 2025, or other tax year beginning , 2025, ending — See separate instructions.

☐ Filed pursuant to section 301.9100-2 ☐ Combat zone ☐ Deceased Spouse

☐ Other

Your first name and middle initial	Last name	**Your identifying number** (see instr.)
JULIO	CONFORTO	347-47-4770

Home address (number and street). If you have a P.O. box, see instructions. — Apt. no.

42259 FOUNTAIN PARK DR N — 230

City, town, or post office. If you have a foreign address, also complete spaces below. — State — ZIP code

NOVI — MI — 48375

Foreign country name — Foreign province/state/county — Foreign postal code

Filing Status Check only one box.

☐ Single ☒ Married filing separately (MFS) ☐ Qualifying surviving spouse (QSS) ☐ Estate ☐ Trust

If you checked the QSS box, enter the child's name if the qualifying person is a child but not your dependent: _____

Digital Assets

At any time during 2025, did you: (a) receive (as a reward, award, or payment for property or services); or (b) sell, exchange, or otherwise dispose of a digital asset (or a financial interest in a digital asset)? (See instructions.) ..... ☐ **Yes** ☒ **No**

Dependents (see instructions)

If more than four dependents, see instructions and check here .....

	Dependent 1	Dependent 2	Dependent 3	Dependent 4
(1) First name				
(2) Last name				
(3) Identifying number				
(4) Relationship				
(5) Check if lived with you more than half of 2025	☐ Yes	☐ Yes	☐ Yes	☐ Yes
(6) Credits	☐ Child tax credit ☐ Credit for other dependents	☐ Child tax credit ☐ Credit for other dependents	☐ Child tax credit ☐ Credit for other dependents	☐ Child tax credit ☐ Credit for other dependents

Income Effectively Connected With U.S. Trade or Business

Attach Form(s) W-2, 1042-S, SSA-1042-S, RRB-1042-S, and 8288-A here. Also attach Form(s) 1099-R if tax was withheld.

If you did not get a Form W-2, see instructions.

1a	Total amount from Form(s) W-2, box 1 (see instructions) STMT 1			1a	51,991.
b	Household employee wages not reported on Form(s) W-2			1b	
c	Tip income not reported on line 1a (see instructions)			1c	
d	Medicaid waiver payments not reported on Form(s) W-2 (see instructions)			1d	
e	Taxable dependent care benefits from Form 2441, line 26			1e	
f	Employer-provided adoption benefits from Form 8839, line 31			1f	
g	Wages from Form 8919, line 6			1g	
h	Other earned income (see instructions). Enter type and amount:			1h	
i	Reserved for future use	1i			
j	Reserved for future use			1j	
k	Total income exempt by a treaty from Schedule OI (Form 1040-NR), item L, line 1(e)	1k			
z	Add lines 1a through 1h			1z	51,991.
2a	Tax-exempt interest 2a		**b** Taxable interest	2b	
3a	Qualified dividends 3a		**b** Ordinary dividends	3b	
c	Check if your child's dividends are included in **1** ☐ Line 3a		**2** ☐ Line 3b		
4a	IRA distributions 4a		**b** Taxable amount	4b	
c	Check if (see instructions) **1** ☐ Rollover		**2** ☐ QCD **3** ☐		
5a	Pensions and annuities 5a		**b** Taxable amount	5b	
c	Check if (see instructions) **1** ☐ Rollover		**2** ☐ PSO **3** ☐		
6	Reserved for future use			6	
7a	Capital gain or (loss). Attach Schedule D if required			7a	
b	Check if: ☐ Schedule D not required ☐ Includes child's capital gain or (loss)				
8	Additional income from Schedule 1 (Form 1040), line 10			8	
9	Add lines 1z, 2b, 3b, 4b, 5b, 7a, and 8. This is your **total effectively connected income**			9	51,991.
10	Adjustments to income from Schedule 1 (Form 1040), line 26. These are your **total adjustments to income**			10	
11a	Subtract line 10 from line 9. This is your **adjusted gross income**			11a	51,991.

Tax and Credits	11	Amount from line 11a (adjusted gross income)		11b	51,991.
	12	**Itemized deductions** (from Schedule A (Form 1040-NR)) or, for certain residents of India, standard deduction (see instr.)		12	2,191.
	13a	Qualified business income deduction from Form 8995 or Form 8995-A	13a		
	b	Exemptions for estates and trusts only (see instructions)	13b		
	c	Additional deductions from Schedule 1-A, line 38	13c		
	14	Add lines 12 through 13c		14	2,191.
	15	Subtract line 14 from line 11b. If zero or less, enter -0-. This is your **taxable income**		15	49,800.
	16	**Tax** (see instr.). Check if any from Form(s): 1 ☐ 8814 2 ☐ 4972 3 ☐		16	5,876.
	17	Amount from Schedule 2 (Form 1040), line 3		17	
	18	Add lines 16 and 17		18	5,876.
	19	Child tax credit or credit for other dependents from Schedule 8812 (Form 1040)		19	
	20	Amount from Schedule 3 (Form 1040), line 8		20	
	21	Add lines 19 and 20		21	
	22	Subtract line 21 from line 18. If zero or less, enter -0-		22	5,876.
	23a	Tax on income not effectively connected with a U.S. trade or business from Schedule NEC (Form 1040-NR), line 15	23a		
	b	Other taxes, including self-employment tax, from Schedule 2 (Form 1040), line 21	23b		
	c	Transportation tax (see instructions)	23c		
	d	Add lines 23a through 23c		23d	
	24	Add lines 22 and 23d. This is your **total tax**		24	5,876.
Payments and Refundable Credits	25	Federal income tax withheld from:			
	a	Form(s) W-2 STMT 2	25a	9,239.	
	b	Form(s) 1099	25b		
	c	Other forms (see instructions)	25c		
	d	Add lines 25a through 25c		25d	9,239.
	e	Form(s) 8805		25e	
	f	Form(s) 8288-A		25f	
	g	Form(s) 1042-S		25g	
	26	2025 estimated tax payments and amount applied from 2024 return		26	
	27	Reserved for future use	27		
	28	Additional child tax credit (ACTC) from Schedule 8812 (Form 1040). If you do not want to claim the ACTC, check here ☐	28		
	29	Credit for amount paid with Form 1040-C	29		
	30	Refundable adoption credit from Form 8839, line 13	30		
	31	Amount from Schedule 3 (Form 1040), line 15	31		
	32	Add lines 28, 29, 30, and 31. These are your **total other payments and refundable credits**		32	
	33	Add lines 25d, 25e, 25f, 25g, 26, and 32. These are your **total payments**		33	9,239.
Refund	34	If line 33 is more than line 24, subtract line 24 from line 33. This is the amount you **overpaid**		34	3,363.
	35a	Amount of line 34 you want **refunded to you.** If Form 8888 is attached, check here ☐		35a	3,363.
Direct deposit? See instructions.	b	Routing number 072000096	c Type: ☒ Checking ☐ Savings		
	d	Account number 6828699246			
	e	If you want your refund check mailed to an address outside the United States not shown on page 1, enter it here.			
	36	Amount of line 34 you want **applied to your 2026 estimated tax**	36		
Amount You Owe	37	Subtract line 33 from line 24. **This is the amount you owe.** For details on how to pay, go to *www.irs.gov/Payments* or see instr.		37	
	38	Estimated tax penalty (see instructions)	38		

Third Party Designee

Do you want to allow another person to discuss this return with the IRS? See instructions ☒ **Yes.** Complete below. ☐ **No**

Designee's name: NEERU GUPTA | Phone no.: +12124364340 | Personal identification number (PIN): 50601

Sign Here

Under penalties of perjury, I declare that I have examined this return and accompanying schedules and statements, and to the best of my knowledge and belief, they are true, correct, and complete. Declaration of preparer (other than taxpayer) is based on all information of which preparer has any knowledge.

Your signature | Date | Your occupation: CUSTOMER SERVICE ENGINE | If the IRS sent you an Identity Protection PIN, enter it here (see inst.)

Phone no. | Email address

Paid Preparer Use Only

Preparer's name	Preparer's signature	Date	PTIN	Check if:
NEERU GUPTA	NEERU GUPTA	02/23/26	P01500601	☐ Self-employed

Firm's name: DELOITTE TAX LLP | Phone no.: (212) 492-4000

Firm's address: 30 ROCKEFELLER PLAZA NEW YORK, NY 10112-0015 | Firm's EIN: 86-1065772

SCHEDULE A (Form 1040-NR)

Department of the Treasury
Internal Revenue Service

Itemized Deductions

Attach to Form 1040-NR.

Go to www.irs.gov/Form1040NR for instructions and the latest information.

Caution: If you are claiming a net qualified disaster loss on Form 4684, see instructions for line 7.

OMB No. 1545-0074

2025

Attachment Sequence No. **7A**

Name shown on Form 1040-NR: JULIO CONFORTO

Your identifying number: 347-47-4770

Taxes You Paid	1a	State and local income taxes	1a	2,191.		
	b	Enter the smaller of line 1a or $40,000 ($20,000 if married filing separately). If Form 1040-NR, line 11b is more than $500,000 ($250,000 if married filing separately), see instructions			1b	2,191.
Gifts to U.S. Charities	2	Gifts by cash or check. If you made any gift of $250 or more, see instructions	2			
Caution: If you made a gift and got a benefit for it, see instructions.	3	Other than by cash or check. If you made any gift of $250 or more, see instructions. You **must** attach Form 8283 if over $500	3			
	4	Carryover from prior year	4			
	5	Add lines 2 through 4			5	
Casualty and Theft Losses	6	Casualty and theft loss(es) from a federally declared disaster (other than net qualified disaster losses). Attach Form 4684 and enter the amount from line 18 of that form. See instructions			6	
Other Itemized Deductions	7	Other - from list in instructions. List type and amount:			7	
Total Itemized Deductions	8	Add the amounts in the far right column for lines 1b through 7. Also, enter this amount on Form 1040-NR, line 12			8	2,191.

For Disclosure, Privacy Act, and Paperwork Reduction Act Notice, see the Instructions for Form 1040-NR.

Schedule A (Form 1040-NR) 2025 Created 12/19/25

SCHEDULE OI (Form 1040-NR)

Department of the Treasury
Internal Revenue Service

Other Information

Attach to Form 1040-NR.
Go to www.irs.gov/Form1040NR for instructions and the latest information.
Answer all questions.

OMB No. 1545-0074

2025

Attachment Sequence No. **7C**

Name shown on Form 1040-NR
JULIO CONFORTO

Your identifying number
347-47-4770

A Of what country or countries were you a citizen or national during the tax year? BRAZIL, ITALY

B In what country did you claim residence for tax purposes during the tax year? BRAZIL

C Have you ever applied to be a green card holder (lawful permanent resident) of the United States? ☐ **Yes** ☒ **No**

D Were you ever:

1. A U.S. citizen? ☐ **Yes** ☒ **No**

2. A green card holder (lawful permanent resident) of the United States? ☐ **Yes** ☒ **No**

If you answer "Yes" to (1) or (2), see Pub. 519, chapter 4, for expatriation rules that apply to you.

E If you had a visa on the last day of the tax year, enter your visa type. If you didn't have a visa, enter your U.S. immigration status on the last day of the tax year. L1B

F Have you ever changed your visa type (nonimmigrant status) or U.S. immigration status? ☐ **Yes** ☒ **No**

If you answered "Yes," indicate the date and nature of the change:

G List all dates you entered and left the United States during 2025. See instructions.

Note: If you're a resident of Canada or Mexico **AND** commute to work in the United States at frequent intervals, **check the box for Canada or Mexico** and skip to item H ☐ Canada ☐ Mexico

Date entered United States mm/dd/yy	Date departed United States mm/dd/yy
08/31/25	

Date entered United States mm/dd/yy	Date departed United States mm/dd/yy

H Give number of days (including vacation, nonworkdays, and partial days) you were present in the United States during: 2023 0 , 2024 0 , and 2025 123 .

I Did you file a U.S. income tax return for any prior year? ☐ **Yes** ☒ **No**

If "Yes," give the latest year and form number you filed:

J Are you filing a return for a trust? ☐ **Yes** ☒ **No**

If "Yes," did the trust have a U.S. or foreign owner under the grantor trust rules, make a distribution or loan to a U.S. person, or receive a contribution from a U.S. person? ☐ **Yes** ☐ **No**

K Did you receive total compensation of $250,000 or more during the tax year? ☐ **Yes** ☒ **No**

If "Yes," did you use an alternative method to determine the source of this compensation? ☐ **Yes** ☐ **No**

L Income Exempt From Tax - If you are claiming exemption from income tax under a U.S. income tax treaty with a foreign country, complete (1) through (3) below. See Pub. 901 for more information on tax treaties.

1. Enter the name of the country, the applicable tax treaty article, the number of months in prior years you claimed the treaty benefit, and the amount of exempt income in the columns below. Attach Form 8833 if required. See instructions.

(a) Country	**(b)** Tax treaty article	**(c)** Number of months claimed in prior tax years	**(d)** Amount of exempt income in current tax year

(e) Total. Enter this amount on Form 1040-NR, line 1k. Do not enter it anywhere else on line 1

2. Were you subject to tax in a foreign country on any of the income shown in 1(d) above? ☐ **Yes** ☐ **No**

3. Are you claiming treaty benefits pursuant to a Competent Authority determination? ☐ **Yes** ☐ **No**

If "Yes," attach a copy of the Competent Authority determination letter to your return.

M Check the applicable box if:

1. This is the first year you are making an election to treat income from real property located in the United States as effectively connected with a U.S. trade or business under section 871(d). See instructions ☐

2. You have made an election in a previous year that has not been revoked, to treat income from real property located in the United States as effectively connected with a U.S. trade or business under section 871(d). See instructions ☐

SCHEDULE B (Form 1040)

Department of the Treasury
Internal Revenue Service

Interest and Ordinary Dividends

Attach to Form 1040 or 1040-SR.
Go to www.irs.gov/ScheduleB for instructions and the latest information.

OMB No. 1545-0074

2025

Attachment Sequence No. **08**

Name(s) shown on return

Your social security number

JULIO CONFORTO

347 47 4770

Part I Interest

Note: If you received a Form 1099-INT, Form 1099-OID, or substitute statement from a brokerage firm, list the firm's name as the payer and enter the total interest shown on that form.

			Amount
1	List name of payer. If any interest is from a seller-financed mortgage and the buyer used the property as a personal residence, see the instructions and list this interest first. Also, show that buyer's social security number and address:		
	COMERCIA BANK		50.
	INTEREST EXEMPT UNDER IRC SEC 871(H)		-50.
		1	
2	Add the amounts on line 1	2	
3	Excludable interest on series EE and I U.S. savings bonds issued after 1989. Attach Form 8815	3	
4	Subtract line 3 from line 2. Enter the result here and on Form 1040 or 1040-SR, line 2b	4	

Note: If line 4 is over $1,500, you must complete Part III.

Part II Ordinary Dividends

Note: If you received a Form 1099-DIV or substitute statement from a brokerage firm, list the firm's name as the payer and enter the ordinary dividends shown on that form.

			Amount
5	List name of payer:	5	
6	Add the amounts on line 5. Enter the total here and on Form 1040 or 1040-SR, line 3b	6	

Note: If line 6 is over $1,500, you must complete Part III.

Part III Foreign Accounts and Trusts

You must complete this part if you **(a)** had over $1,500 of taxable interest or ordinary dividends; **(b)** had a foreign account; or **(c)** received a distribution from, or were a grantor of, or a transferor to, a foreign trust.

Caution: If required, failure to file FinCEN Form 114 may result in substantial penalties. Additionally, you may be required to file Form 8938, Statement of Specified Foreign Financial Assets. See instructions.

		Yes	No
7a	At any time during 2025, did you have a financial interest in or signature authority over a financial account (such as a bank account, securities account, or brokerage account) located in a foreign country? See instructions		X
	If "Yes," are you required to file FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR), to report that financial interest or signature authority? See FinCEN Form 114 and its instructions for filing requirements and exceptions to those requirements		
b	If you are required to file FinCEN Form 114, list the name(s) of the foreign country(-ies) where the financial account(s) is (are) located:		
8	During 2025, did you receive a distribution from, or were you the grantor of, or transferor to, a foreign trust? If "Yes," you may have to file Form 3520. See instructions		X

Form **8889**

Department of the Treasury
Internal Revenue Service

Health Savings Accounts (HSAs)

Attach to Form 1040, 1040-SR, or 1040-NR.
Go to www.irs.gov/Form8889 for instructions and the latest information.

OMB No. 1545-0074

2025

Attachment Sequence No. **52**

Name(s) shown on Form 1040, 1040-SR, or 1040-NR

JULIO CONFORTO

Social security number of HSA beneficiary. If both spouses have HSAs, see instructions. 347-47-4770

Before you begin: Complete Form 8853, Archer MSAs and Long-Term Care Insurance Contracts, if required.

Part I HSA Contributions and Deduction.

See the instructions before completing this part. If you are filing jointly and both you and your spouse each have separate HSAs, complete a separate Part I for each spouse.

1	Check the box to indicate your coverage under a high-deductible health plan (HDHP) during 2025. See instructions			[X] Self-only [ ] Family
2	HSA contributions you made for 2025 (or those made on your behalf), including those made by the unextended due date of your tax return that were for 2025. **Do not** include employer contributions, contributions through a cafeteria plan, or rollovers. See instructions		2	
3	If you were under age 55 at the end of 2025 and, on the first day of **every** month during 2025, you were, or were considered, an eligible individual with the **same** coverage, enter $4,300 ($8,550 for family coverage). **All others,** see the instructions for the amount to enter		3	4,300.
4	Enter the amount you and your employer contributed to your Archer MSAs for 2025 from Form 8853, lines 1 and 2. If you or your spouse had family coverage under an HDHP at any time during 2025, also include any amount contributed to your spouse's Archer MSAs		4	
5	Subtract line 4 from line 3. If zero or less, enter -0-		5	4,300.
6	Enter the amount from line 5. But if you and your spouse each have separate HSAs and had family coverage under an HDHP at any time during 2025, see the instructions for the amount to enter		6	4,300.
7	If you were age 55 or older at the end of 2025, married, and you or your spouse had family coverage under an HDHP at any time during 2025, enter your additional contribution amount. See instructions		7	
8	Add lines 6 and 7		8	4,300.
9	Employer contributions made to your HSAs for 2025	290.		
10	Qualified HSA funding distributions			
11	Add lines 9 and 10		11	290.
12	Subtract line 11 from line 8. If zero or less, enter -0-		12	4,010.
13	**HSA deduction** (see instructions)		13	

Part II HSA Distributions.

If you are filing jointly and both you and your spouse each have separate HSAs, complete a separate Part II for each spouse.

14a	Total distributions you received in 2025 from all HSAs (see instructions)	14a	
b	Distributions included on line 14a that you rolled over to another HSA. Also include any excess contributions (and the earnings on those excess contributions) included on line 14a that were withdrawn by the due date of your return. See instructions	14b	
c	Subtract line 14b from line 14a	14c	
15	Qualified medical expenses paid using HSA distributions (see instructions)	15	
16	**Taxable HSA distributions.** Subtract line 15 from line 14c. If zero or less, enter -0-. Also, include this amount in the total on Schedule 1 (Form 1040), Part I, line 8f	16	
17a	If any of the distributions included on line 16 meet any of the **Exceptions to the Additional 20% Tax** (see instructions), check here [ ]		
b	**Additional 20% tax** (see instructions). Enter 20% (0.20) of the distributions included on line 16 that are subject to the additional 20% tax. Also, include this amount in the total on Schedule 2 (Form 1040), Part II, line 17c	17b	

Part III Income and Additional Tax for Failure To Maintain HDHP Coverage.

See the instructions before completing this part. If you are filing jointly and both you and your spouse each have separate HSAs, complete a separate Part III for each spouse.

18	Last-month rule	18	
19	Qualified HSA funding distribution	19	
20	**Total income.** Add lines 18 and 19. Include this amount on Schedule 1 (Form 1040), Part I, line 8f	20	
21	**Additional tax.** Multiply line 20 by 10% (0.10). Include this amount in the total on Schedule 2 (Form 1040), Part II, line 17d	21	

FORM 1040-NR WAGES RECEIVED AND TAXES WITHHELD STATEMENT 1

T S	EMPLOYER'S NAME	AMOUNT PAID	FEDERAL TAX WITHHELD	STATE TAX WITHHELD	CITY SDI TAX W/H	FICA TAX	MEDICARE TAX
T	SIEMENS MEDICAL SOLUTIONS USA, INC.	51,991.	9,239.	2,191.		3,223.	754.
	TOTALS	51,991.	9,239.	2,191.		3,223.	754.

FORM 1040-NR FEDERAL INCOME TAX WITHHELD - FORM(S) W-2 STATEMENT 2

T S -	DESCRIPTION	AMOUNT
T	SIEMENS MEDICAL SOLUTIONS USA, INC.	9,239.
	TOTAL TO FORM 1040-NR, LINE 25A	9,239.

2025 TAX RETURN FILING INSTRUCTIONS

MICHIGAN INCOME TAX RETURN

FOR THE YEAR ENDING
December 31, 2025

Prepared For:

Julio Conforto
42259 Fountain Park Dr N Apt. No. 230
Novi, MI 48375

Prepared By:

Deloitte Tax LLP
30 Rockefeller Plaza
New York, NY 10112-0015

Amount of Tax:

Total tax	$	1,832
Less: payments and credits	$	2,062
Plus: interest and penalties	$	0
Overpayment	$	230

Overpayment:

Miscellaneous donations	$	0
Credited to your estimated tax	$	0
Refunded to you	$	230

Make Check Payable To:

Not applicable

Mail Tax Return and Check (if applicable) To:

This return has been prepared for electronic filing. Please sign, date, and return federal Form 8879 to our office. We will submit your electronic return to the MDT.

Return Must Be Mailed On Or Before:

Return federal Form 8879 to us by April 10, 2026.

Special Instructions:

Your refund will be deposited directly into your account ending in 9246.

 Issued under authority of Public Act 281 of 1967, as amended.

2025 MICHIGAN Individual Income Tax Return MI-1040

Amended Return ☐
(Include Schedule AMD)

Return is due April 15, 2026.

1. Filer's First Name	M.I.	Last Name	2. Filer's Full Social Security No. (Example: 123-45-6789)
JULIO		CONFORTO	347-47-4770
If a Joint Return, Spouse's First Name	M.I.	Last Name	3. Spouse's Full Social Security No. (Example: 123-45-6789)
			NRA
Home Address (Number, Street, or P.O. Box)			
42259 FOUNTAIN PARK DR N APT. NO. 230			

City or Town	State	ZIP/Postal Code	Country Code	4. School District Code (5 digits)
NOVI	MI	48375		63100

5. **STATE CAMPAIGN FUND**
Check if you (and/or your spouse, if filing a joint return) want $3 of your taxes to go to this fund. This will not increase your tax or reduce your refund.
a. ☐ Filer
b. ☐ Spouse

6. **FARMERS, FISHERMEN, OR SEAFARERS**
☐ Check this box if 2/3 of your income is from farming, fishing, or seafaring.

7. **2025 FILING STATUS.** Check one.
a. ☐ Single
b. ☐ Married filing jointly
c. ☒ Married filing separately*
* If you check box "c," complete line 3 and enter spouse's full name below:

8. **2025 RESIDENCY STATUS.** Check all that apply.
a. ☐ Resident
b. ☐ Nonresident*
c. ☒ Part-Year Resident*
* If you check box "b" or "c," you must complete and **include Schedule NR.**

9. **EXEMPTIONS. NOTE:** If someone else can claim you as a dependent, check box 9e, enter 0 on line 9a and enter $1,500 on line 9e (see instr.).

a. Number of exemptions (see instructions)	9a.	1	x	$5,800	9a.	5800	00
b. Number of individuals who qualify for one of the following special exemptions: deaf, blind, hemiplegic, paraplegic, quadriplegic, or totally and permanently disabled	9b.		x	$3,400	9b.		00
c. Number of qualified disabled veterans	9c.		x	$500	9c.		00
d. Number of Certificates of Stillbirth from MDHHS (see instructions)	9d.		x	$5,800	9d.		00
e. Claimed as dependent, see line 9 **NOTE** above	9e.	☐			9e.		00
f. Add lines 9a, 9b, 9c, 9d and 9e. Enter here and on line 15					9f.	5800	00

10. **Adjusted Gross Income** from your U.S. Form *1040* (see instructions)	10.	51991	00
11. Additions from Schedule 1, line 9. **Include Schedule 1**	11.		00
12. **Total.** Add lines 10 and 11	12.	51991	00
13. Subtractions from Schedule 1, line 31. **Include Schedule 1**	13.	3462	00
14. **Income subject to tax.** Subtract line 13 from line 12. If line 13 is greater than line 12, enter "0"	14.	48529	00
15. **Exemption allowance.** Enter amount from line 9f or Schedule NR, line 19	15.	5414	00
16. **Taxable income.** Subtract line 15 from line 14. If line 15 is greater than line 14, enter "0"	16.	43115	00
17. **Tax.** Multiply line 16 by 4.25% (0.0425)	17.	1832	00

Continue on page 2. This form cannot be processed if pages 2 and 3 are not completed and included.

Filer's Full Social Security Number: 347-47-4770

NON-REFUNDABLE CREDITS

			AMOUNT		CREDIT	
18.	Income Tax Imposed by government units outside Michigan. Include a copy of the return (see instructions)	18a.		00	18b.	00
19.	Michigan Historic Preservation Tax Credit (see instructions)	19a.		00	19b.	00
20.	Credit for organ donation expenses (see instructions)	20a.		00	20b.	00
21.	**Income Tax.** Subtract the sum of lines 18b, 19b, and 20b from line 17. If the sum of lines 18b, 19b, and 20b is greater than line 17, enter "0"				21.	1832 00
22.	Voluntary Contributions from Form 4642, line 6. **Include Form 4642**				22.	00
23.	Penalty for nonqualified withdrawal from Form 5792, *Michigan First-Time Home Buyer Savings Program, line 5*				23.	00
24.	**USE TAX.** Use tax due on Internet, mail order or other out-of-state purchases from Worksheet 1 (see instructions)				24.	0 00
25.	**Total Tax Liability.** Add lines 21 through 24				25.	1832 00

REFUNDABLE CREDITS AND PAYMENTS

26.	**Property Tax Credit. Include MI-1040CR or MI-1040CR-2**				26.	00
27.	**Farmland Preservation Tax Credit. Include MI-1040CR-5**				27.	00
			FEDERAL		**MICHIGAN**	
28.	Earned Income Tax Credit. Multiply line 28a by 30% (0.30) and enter result on line 28b	28a.		00	28b.	00
29.	Michigan Historic Preservation Tax Credit (refundable). **Include Form 3581**				29.	00
30.	Credit for allocated share of tax paid by an electing flow-through entity (see instructions)				30.	00
31.	Michigan tax withheld from Schedule W, line 6. **Include Schedule W (do not submit W-2s)**				31.	2062 00
32.	Estimated tax, extension payments and 2024 credit forward				32.	00
33.	**2025 AMENDED RETURNS ONLY.** Taxpayers completing an original 2025 return should skip to line 34. Amended returns must **include Schedule AMD (see instructions).**					
	33a. ☐ If you had a refund and/or credit forward on the original return, check box 33a and enter this amount as a negative number on line 33c.					
	33b. ☐ If you paid with the original return, check box 33b and enter the amount paid with the original return, plus any additional tax paid after filing, as a positive number on line 33c. Do not include interest or penalty.				33c.	00
34.	Total refundable credits and payments. Add lines 26, 27, 28b, 29, 30, 31, 32 and 33c				34.	2062 00

Continue on page 3. This form cannot be processed if pages 2 and 3 are not completed and included.

Filer's Full Social Security Number: 347-47-4770

PENALTY AND/OR INTEREST RELIEF REQUEST

35a. ☐ Check this box if you and/or your spouse, if filing jointly, are eligible for a federal extension for service in a combat zone. Do not complete lines 35c or 35d.

35b. ☐ Check this box if you and/or your spouse, if filing jointly, have been affected by a declared disaster zone in Michigan (see instructions). Complete lines 35c and 35d.

35c. Address affected by the declared disaster.

35d. Enter the disaster zone and describe how you were affected by the disaster (see instructions).

REFUND OR TAX DUE

36. If line 34 is less than line 25, subtract line 34 from line 25. If applicable, see instructions.
Include interest ____ 00 and penalty ____ 00 ..... **YOU OWE** 36. ____ 00

37. **Overpayment.** If line 34 is greater than line 25, subtract line 25 from line 34 ..... 37. 230 00

38. **Credit Forward.** Amount of line 37 to be credited to your 2026 estimated tax for your 2026 tax return ..... 38. ____ 00

39. Subtract line 38 from line 37 ..... **REFUND** 39. 230 00

DIGITAL ASSET (INCLUDING FINANCIAL INTEREST IN A DIGITAL ASSET)

40. ☐ Check this box if you and/or your spouse, if filing jointly, engaged in any of the following during 2025:
- Received a digital asset as a reward, award, or payment for property or services
- Sold, exchanged, or otherwise disposed of a digital asset.

DIRECT DEPOSIT

Deposit your refund directly to your financial institution! See instructions and complete a, b and c.

a. Routing Transit Number	b. Account Number	c. Type of Account
072000096	6828699246	1. ☒ Checking 2. ☐ Savings

Deceased Taxpayer. If Filer and/or Spouse died after December 31, 2024, enter dates below as (MM-DD-YYYY). *ENTER DATE OF DEATH ONLY.*
Filer ____ Spouse ____

Taxpayer Certification. *I declare under penalty of perjury that the information in this return and attachments is true and complete to the best of my knowledge.*

Filer's Signature ____ Date ____

Spouse's Signature ____ Date ____

☒ By checking this box, I authorize Treasury to discuss my return with my preparer.

Preparer Certification. I declare under penalty of perjury that this return is based on all information of which I have any knowledge.

Preparer's PTIN, FEIN or SSN: P01500601

Preparer's Name (print or type): NEERU GUPTA

Preparer's Signature: NEERU GUPTA

Preparer's Business Name, Address and Telephone Number:
DELOITTE TAX LLP
30 ROCKEFELLER PLAZA
NEW YORK, NY 10112-0015
(212) 492-4000

Refund, credit, or zero returns. Mail your return to: **Michigan Department of Treasury, Lansing, MI 48956**

Pay amount on line 36 **(see instructions).** Mail your check and return to: **Michigan Department of Treasury, Lansing, MI 48929**

Issued under authority of Public Act 281 of 1967, as amended.

2025 MICHIGAN Schedule 1 Additions and Subtractions

Include with Form MI-1040.

Attachment 01

Filer's First Name	M.I.	Last Name	Filer's Full Social Security No. (Example: 123-45-6789)
JULIO		CONFORTO	347-47-4770

Additions to Income (all entries must be positive numbers)

1. Gross interest and dividends from obligations issued by states (other than Michigan) or their political subdivisions	1.		00
2. Deduction for taxes on or measured by income, including self-employment tax, taken on your federal return, and allocated share of tax paid by an electing flow-through entity (see instructions)	2.		00
3. Gains from Michigan column of MI-1040D and MI-4797	3.		00
4. Losses attributable to other states (see instructions)	4.		00
5. Net loss from federal column of your Michigan MI-1040D or MI-4797	5.		00
6. Oil, gas, and nonferrous metallic mineral expense. Enter amount from line 20 of Form 5889, *Michigan Report of Oil, Gas, and Nonferrous Metallic Minerals Extraction - Income and Expenses*	6.		00
7. Federal Net Operating Loss deduction included in AGI	7.		00
8. Other (see instructions). Describe:	8.		00
9. **Total additions. Add lines 1 through 8. Enter here and on MI-1040, line 11**	9.		00

Subtractions from Income (all entries must be positive numbers)

10. Income from U.S. government bonds and other U.S. obligations included in MI-1040, line 10. Include U.S. *Schedule B* if over $5,000	10.		00
11. Amount included in MI-1040, line 10, from military retirement/pension benefits due to service in the U.S. Armed Forces or Michigan National Guard, or taxable railroad retirement/pension benefits	11.		00
12. Gains from federal column of Michigan MI-1040D and MI-4797	12.		00
13. Income attributable to another state. **Explain type and source:** SCH NR, LINE 14 C	13.	3462	00
14. Taxable Social Security benefits or military pay (not retirement/pension) included on MI-1040, line 10	14.		00
15. Income earned while a resident of a Renaissance Zone (see instructions).	15.		00
16. Michigan state and local income tax refunds received in 2025 and included on MI-1040, line 10 including your allocated share of refund received from an electing flow-through entity	16.		00
17. Michigan Education Savings Program, MI 529 Advisor Plan, and Michigan Achieving a Better Life Experience Program	17.		00
18. Michigan Education Trust	18.		00
19. Oil, gas, and nonferrous metallic minerals income. Enter amount from line 7 of Form 5889, *Michigan Report of Oil, Gas, and Nonferrous Metallic Minerals Extraction - Income and Expenses*	19.		00
20. Resident Tribal Member income exempted under a State/Tribal tax agreement or pursuant to *Revenue Administrative Bulletin 1988-47*	20.		00
21. First-Time Home Buyer Savings Program. Enter amount from line 3 of Form 5792, *Michigan First-Time Home Buyer Savings Program.* **Include Form 5792**	21.		00
22. Expenses of marihuana establishment licensed under MRTMA	22.		00
23. Miscellaneous subtractions (see instructions). **Describe:**	23.		00

Continue on page 2.

2025 MICHIGAN Schedule 1 Additions and Subtractions

Filer's First Name	M.I.	Last Name	Filer's Full Social Security No. (Example: 123-45-6789)
JULIO		CONFORTO	347-47-4770

Deduction Based on Year of Birth

Complete 24A through 24H if claiming the Michigan Standard Deduction, the retirement/pension benefits deduction or the senior investment income deduction on lines 25, 26, 27, or 28. Check box(es) 24C and/or 24G **only** if you or your spouse received retirement/pension benefits from employment with a governmental agency not covered by the federal Social Security Act (SSA exempt employment). **See instructions before continuing**.

24.

FILER				SPOUSE			
A. Year of Birth (19xx)	**B.** Age as of 12-31-2025	**C.** Check if filer received benefits from SSA exempt employment	**D.** Check if filer retired as of 01-01-2013 and born after 1952	**E.** Year of Birth (19xx)	**F.** Age as of 12-31-2025	**G.** Check if spouse received benefits from SSA exempt employment	**H.** Check if spouse retired as of 01-01-2013 and born after 1952
		☐	☐			☐	☐

25. **Tier 2 Michigan Standard Deduction.** Complete this line if the older of you or your spouse (if married) was born during the period January 1, 1946 through December 31, 1952, and reached age 67. **Do not complete lines 26, 27 or 28**	25.		00
26. **Tier 3 Michigan Standard Deduction.** Complete this line if the older of you or your spouse (if married) was born during the period January 1, 1953 through January 1, 1959, and reached age 67 on or before December 31, 2025. **Do not complete lines 25, 27 or 28**	26.		00
27. **Retirement/Pension benefits.** Enter amount from line 16, 17, 18 or 19 of Form 4884, *Michigan Retirement and Pension Schedule.* **Include Form 4884**	27.		00
28. Dividend/interest/capital gains deduction for taxpayers **born prior to 1946.** This deduction is limited to $14,688 on a single return or $29,376 on a joint return, and must be reduced by any deduction for retirement/pension benefits (see instructions)	28.		00

☐ Check this box if you are the unremarried surviving spouse claiming a dividend, interest or capital gains deduction for someone born prior to 1946 who was at least age 65 at the time of death.

29. **Subtotal.** Add lines 10 through 28	29.	3462	00
30. **2025 Michigan NOL Deduction.** Enter amount from line 11 or 12 of Form 5674, *Michigan Net Operating Loss Deduction.* **Include Form 5674**	30.		00
31. **Total Subtractions.** Add lines 29 and 30. Enter here and on MI-1040, line 13	31.	3462	00

Michigan Department of Treasury (Rev. 03-25)

Schedule NR

2025 MICHIGAN Nonresident and Part-Year Resident Schedule

Issued under authority of Public Act 281 of 1967, as amended.

Include with Form MI-1040. Read all instructions before completing this form. **Attachment 02**

1. Filer's First Name	M.I.	Last Name	2. Filer's Full Social Security No. (Example: 123-45-6789)
JULIO		CONFORTO	347-47-4770
If a Joint Return, Spouse's First Name	M.I.	Last Name	3. Spouse's Full Social Security No. (Example: 123-45-6789)

4. **2025 RESIDENCY STATUS:**
Check all that apply.

a. ☐ Nonresident

b. ☒ Part-Year Resident of Michigan. Enter dates of Michigan residency in 2025*

*Dates of **Michigan** residency in 2025 (Enter dates as MM-DD-YYYY)

	FILER	SPOUSE
FROM:	08-31-2025	2025
TO:	2025	2025

Income Allocation

	A. Total Income	B. Michigan Income	C. Other State(s) Income
5. Wages, salaries, other payments (tips, etc.)	51991 00	48529 00	3462 00
6. Interest and dividends	00	00	00
7. Business and farm income (include U.S. *Schedules C* and *F*)	00	00	00
8. Gains/losses from MI-1040D or U.S. *Schedule D*, and/or MI-4797 or U.S. Form *4797*	00	00	00
9. Income reported on U.S. *Schedule E* (include U.S. *Schedule E* and supporting statements)	00	00	00
10. Pensions, IRA distributions, annuities and Social Security (see Form 4884)	00	00	00
11. Other (see instructions)	00	00	00
12. Total income. Add lines 5 through 11	51991 00	48529 00	3462 00
13. Enter the total adjustments from U.S. *1040* Describe: _____	00	00	00
14. Subtract line 13 from line 12. The amount in column A should equal MI-1040, line 10. Enter amount in column C on Schedule 1, line 13 or, if a negative amount, enter as a positive amount on Schedule 1, line 4.	51991 00	48529 00	3462 00

Exemption Allowance (If one spouse is a full-year resident, and the other is not, see instructions.)

15. Enter amount from MI-1040, line 9f		15.	5800 00
16. Enter Michigan source income from line 14, column B	48529 00		
17. Enter total income from line 14, column A	51991 00		
18. Divide line 16 by line 17 (if line 16 is greater than line 17, enter 100%)		18.	93.34 %
19. If both spouses are part-year or nonresidents, multiply line 15 by the percentage on line 18 and enter here and on MI-1040, line 15. If one spouse is a full-year resident, complete Worksheet 6 and enter here and on MI-1040, line 15		19.	5414 00

+ 1019 2025 13 01 27 1

558171 12-26-25

Schedule W

2025 MICHIGAN Withholding Tax Schedule

Issued under authority of Public Act 281 of 1967, as amended.

Attachment 13

INSTRUCTIONS: If you had Michigan income tax withheld in 2025, you must complete a *Withholding Tax Schedule* (Schedule W) to claim the withholding on your *Individual Income Tax Return* (MI-1040, line 31). Report military pay in Table 1 and military retirement benefits and taxable railroad retirement benefits (both Tier 1 and Tier 2) in Table 2 even if no Michigan tax was withheld. Include your completed Schedule W with Form MI-1040. See complete instructions on page 2 of this form. If you need additional space, include another Schedule W.

1. Filer's First Name	M.I.	Last Name	2. Filer's Full Social Security No. (Example: 123-45-6789)
JULIO		CONFORTO	347-47-4770
If a Joint Return, Spouse's First Name	M.I.	Last Name	3. Spouse's Full Social Security No. (Example: 123-45-6789)
			NRA

TABLE 1: MICHIGAN TAX WITHHELD OR MILITARY PAY REPORTED ON W-2, W-2G or CORRECTED W-2 FORMS

A Enter "X" for: Filer	A Enter "X" for: Spouse	B Employer's identification number (Example: 38-1234567)	C Box c - Employer's name	D Box 1 - Wages, tips, other compensation		E Box 17 - Michigan income tax withheld	
X		22-2417778	SIEMENS MEDICAL SOLUT	51991	00	2062	00
					00		00
					00		00
					00		00
					00		00
Enter Table 1 Subtotal from additional Schedule W forms (if applicable)							00
4. **SUBTOTAL.** Enter total of Table 1, column E					4.	2062	00

TABLE 2: MICHIGAN TAX WITHHELD OR MILITARY RETIREMENT BENEFITS AND RAILROAD RETIREMENT BENEFITS (BOTH TIER 1 AND TIER 2) REPORTED ON 1099 FORMS

A Enter "X" for: Filer	A Enter "X" for: Spouse	B Payer's federal identification number (Example: 38-1234567)	C Payer's name	D Taxable pension distribution, misc. income, etc. (see inst.)		E Michigan income tax withheld	
					00		00
					00		00
					00		00
					00		00
					00		00
Enter Table 2 Subtotal from additional Schedule W forms (if applicable)							00
5. **SUBTOTAL.** Enter total of Table 2, column E					5.		00
6. **TOTAL.** Add lines 4 and 5. Enter here and carry to MI-1040, line 31					6.	2062	00

+ 1019 2025 57 01 27 9

Form **1040-NR**

Department of the Treasury - Internal Revenue Service

U.S. Nonresident Alien Income Tax Return

2025 | OMB No. 1545-0074 | IRS Use Only - Do not write or staple in this space.

For the year Jan. 1 - Dec. 31, 2025, or other tax year beginning , 2025, ending — See separate instructions.

☐ Filed pursuant to section 301.9100-2 ☐ Combat zone ☐ Deceased Spouse

☐ Other

Your first name and middle initial	Last name	**Your identifying number** (see instr.)
JULIO	CONFORTO	347-47-4770

Home address (number and street). If you have a P.O. box, see instructions. — Apt. no.

42259 FOUNTAIN PARK DR N — 230

City, town, or post office. If you have a foreign address, also complete spaces below. — State — ZIP code

NOVI — MI — 48375

Foreign country name — Foreign province/state/county — Foreign postal code

Filing Status Check only one box.

☐ Single ☒ Married filing separately (MFS) ☐ Qualifying surviving spouse (QSS) ☐ Estate ☐ Trust

If you checked the QSS box, enter the child's name if the qualifying person is a child but not your dependent: _____

Digital Assets

At any time during 2025, did you: (a) receive (as a reward, award, or payment for property or services); or (b) sell, exchange, or otherwise dispose of a digital asset (or a financial interest in a digital asset)? (See instructions.) ..... ☐ **Yes** ☒ **No**

Dependents (see instructions)

If more than four dependents, see instructions and check here .....

	Dependent 1	Dependent 2	Dependent 3	Dependent 4
(1) First name				
(2) Last name				
(3) Identifying number				
(4) Relationship				
(5) Check if lived with you more than half of 2025	☐ Yes	☐ Yes	☐ Yes	☐ Yes
(6) Credits	☐ Child tax credit ☐ Credit for other dependents	☐ Child tax credit ☐ Credit for other dependents	☐ Child tax credit ☐ Credit for other dependents	☐ Child tax credit ☐ Credit for other dependents

Income Effectively Connected With U.S. Trade or Business

Attach Form(s) W-2, 1042-S, SSA-1042-S, RRB-1042-S, and 8288-A here. Also attach Form(s) 1099-R if tax was withheld.

If you did not get a Form W-2, see instructions.

1a	Total amount from Form(s) W-2, box 1 (see instructions) STMT 1			1a	51,991.
b	Household employee wages not reported on Form(s) W-2			1b	
c	Tip income not reported on line 1a (see instructions)			1c	
d	Medicaid waiver payments not reported on Form(s) W-2 (see instructions)			1d	
e	Taxable dependent care benefits from Form 2441, line 26			1e	
f	Employer-provided adoption benefits from Form 8839, line 31			1f	
g	Wages from Form 8919, line 6			1g	
h	Other earned income (see instructions). Enter type and amount:			1h	
i	Reserved for future use	1i			
j	Reserved for future use			1j	
k	Total income exempt by a treaty from Schedule OI (Form 1040-NR), item L, line 1(e)	1k			
z	Add lines 1a through 1h			1z	51,991.
2a	Tax-exempt interest 2a		**b** Taxable interest	2b	
3a	Qualified dividends 3a		**b** Ordinary dividends	3b	
c	Check if your child's dividends are included in **1** ☐ Line 3a		**2** ☐ Line 3b		
4a	IRA distributions 4a		**b** Taxable amount	4b	
c	Check if (see instructions) **1** ☐ Rollover		**2** ☐ QCD **3** ☐		
5a	Pensions and annuities 5a		**b** Taxable amount	5b	
c	Check if (see instructions) **1** ☐ Rollover		**2** ☐ PSO **3** ☐		
6	Reserved for future use			6	
7a	Capital gain or (loss). Attach Schedule D if required			7a	
b	Check if: ☐ Schedule D not required ☐ Includes child's capital gain or (loss)				
8	Additional income from Schedule 1 (Form 1040), line 10			8	
9	Add lines 1z, 2b, 3b, 4b, 5b, 7a, and 8. This is your **total effectively connected income**			9	51,991.
10	Adjustments to income from Schedule 1 (Form 1040), line 26. These are your **total adjustments to income**			10	
11a	Subtract line 10 from line 9. This is your **adjusted gross income**			11a	51,991.

Tax and Credits	11	Amount from line 11a (adjusted gross income)		11b	51,991.
	12	**Itemized deductions** (from Schedule A (Form 1040-NR)) or, for certain residents of India, standard deduction (see instr.)		12	2,191.
	13a	Qualified business income deduction from Form 8995 or Form 8995-A	13a		
	b	Exemptions for estates and trusts only (see instructions)	13b		
	c	Additional deductions from Schedule 1-A, line 38	13c		
	14	Add lines 12 through 13c		14	2,191.
	15	Subtract line 14 from line 11b. If zero or less, enter -0-. This is your **taxable income**		15	49,800.
	16	**Tax** (see instr.). Check if any from Form(s): 1 ☐ 8814 2 ☐ 4972 3 ☐		16	5,876.
	17	Amount from Schedule 2 (Form 1040), line 3		17	
	18	Add lines 16 and 17		18	5,876.
	19	Child tax credit or credit for other dependents from Schedule 8812 (Form 1040)		19	
	20	Amount from Schedule 3 (Form 1040), line 8		20	
	21	Add lines 19 and 20		21	
	22	Subtract line 21 from line 18. If zero or less, enter -0-		22	5,876.
	23a	Tax on income not effectively connected with a U.S. trade or business from Schedule NEC (Form 1040-NR), line 15	23a		
	b	Other taxes, including self-employment tax, from Schedule 2 (Form 1040), line 21	23b		
	c	Transportation tax (see instructions)	23c		
	d	Add lines 23a through 23c		23d	
	24	Add lines 22 and 23d. This is your **total tax**		24	5,876.
Payments and Refundable Credits	25	Federal income tax withheld from:			
	a	Form(s) W-2 STMT 2	25a	9,239.	
	b	Form(s) 1099	25b		
	c	Other forms (see instructions)	25c		
	d	Add lines 25a through 25c		25d	9,239.
	e	Form(s) 8805		25e	
	f	Form(s) 8288-A		25f	
	g	Form(s) 1042-S		25g	
	26	2025 estimated tax payments and amount applied from 2024 return		26	
	27	Reserved for future use	27		
	28	Additional child tax credit (ACTC) from Schedule 8812 (Form 1040). If you do not want to claim the ACTC, check here ☐	28		
	29	Credit for amount paid with Form 1040-C	29		
	30	Refundable adoption credit from Form 8839, line 13	30		
	31	Amount from Schedule 3 (Form 1040), line 15	31		
	32	Add lines 28, 29, 30, and 31. These are your **total other payments and refundable credits**		32	
	33	Add lines 25d, 25e, 25f, 25g, 26, and 32. These are your **total payments**		33	9,239.
Refund	34	If line 33 is more than line 24, subtract line 24 from line 33. This is the amount you **overpaid**		34	3,363.
	35a	Amount of line 34 you want **refunded to you.** If Form 8888 is attached, check here ☐		35a	3,363.
Direct deposit? See instructions.	b	Routing number 072000096	c Type: ☒ Checking ☐ Savings		
	d	Account number 6828699246			
	e	If you want your refund check mailed to an address outside the United States not shown on page 1, enter it here.			
	36	Amount of line 34 you want **applied to your 2026 estimated tax**	36		
Amount You Owe	37	Subtract line 33 from line 24. **This is the amount you owe.** For details on how to pay, go to *www.irs.gov/Payments* or see instr.		37	
	38	Estimated tax penalty (see instructions)	38		

Third Party Designee

Do you want to allow another person to discuss this return with the IRS? See instructions ☒ **Yes.** Complete below. ☐ **No**

Designee's name: NEERU GUPTA | Phone no.: +12124364340 | Personal identification number (PIN): 50601

Sign Here

Under penalties of perjury, I declare that I have examined this return and accompanying schedules and statements, and to the best of my knowledge and belief, they are true, correct, and complete. Declaration of preparer (other than taxpayer) is based on all information of which preparer has any knowledge.

Your signature | Date | Your occupation: CUSTOMER SERVICE ENGINE | If the IRS sent you an Identity Protection PIN, enter it here (see inst.)

Phone no. | Email address

Paid Preparer Use Only

Preparer's name	Preparer's signature	Date	PTIN	Check if:
NEERU GUPTA	NEERU GUPTA	02/23/26	P01500601	☐ Self-employed

Firm's name: DELOITTE TAX LLP | Phone no.: (212) 492-4000

Firm's address: 30 ROCKEFELLER PLAZA NEW YORK, NY 10112-0015 | Firm's EIN: 86-1065772

SCHEDULE A (Form 1040-NR)

Department of the Treasury
Internal Revenue Service

Itemized Deductions

Attach to Form 1040-NR.

Go to www.irs.gov/Form1040NR for instructions and the latest information.

Caution: If you are claiming a net qualified disaster loss on Form 4684, see instructions for line 7.

OMB No. 1545-0074

2025

Attachment Sequence No. **7A**

Name shown on Form 1040-NR: JULIO CONFORTO

Your identifying number: 347-47-4770

Taxes You Paid	1a	State and local income taxes	1a	2,191.		
	b	Enter the smaller of line 1a or $40,000 ($20,000 if married filing separately). If Form 1040-NR, line 11b is more than $500,000 ($250,000 if married filing separately), see instructions			1b	2,191.
Gifts to U.S. Charities	2	Gifts by cash or check. If you made any gift of $250 or more, see instructions	2			
Caution: If you made a gift and got a benefit for it, see instructions.	3	Other than by cash or check. If you made any gift of $250 or more, see instructions. You **must** attach Form 8283 if over $500	3			
	4	Carryover from prior year	4			
	5	Add lines 2 through 4			5	
Casualty and Theft Losses	6	Casualty and theft loss(es) from a federally declared disaster (other than net qualified disaster losses). Attach Form 4684 and enter the amount from line 18 of that form. See instructions			6	
Other Itemized Deductions	7	Other - from list in instructions. List type and amount:			7	
Total Itemized Deductions	8	Add the amounts in the far right column for lines 1b through 7. Also, enter this amount on Form 1040-NR, line 12			8	2,191.

For Disclosure, Privacy Act, and Paperwork Reduction Act Notice, see the Instructions for Form 1040-NR.

Schedule A (Form 1040-NR) 2025 Created 12/19/25

SCHEDULE OI (Form 1040-NR)

Department of the Treasury
Internal Revenue Service

Other Information

Attach to Form 1040-NR.
Go to www.irs.gov/Form1040NR for instructions and the latest information.
Answer all questions.

OMB No. 1545-0074

2025

Attachment Sequence No. **7C**

Name shown on Form 1040-NR
JULIO CONFORTO

Your identifying number
347-47-4770

A Of what country or countries were you a citizen or national during the tax year? BRAZIL, ITALY

B In what country did you claim residence for tax purposes during the tax year? BRAZIL

C Have you ever applied to be a green card holder (lawful permanent resident) of the United States? ☐ **Yes** ☒ **No**

D Were you ever:

1. A U.S. citizen? ☐ **Yes** ☒ **No**

2. A green card holder (lawful permanent resident) of the United States? ☐ **Yes** ☒ **No**

If you answer "Yes" to (1) or (2), see Pub. 519, chapter 4, for expatriation rules that apply to you.

E If you had a visa on the last day of the tax year, enter your visa type. If you didn't have a visa, enter your U.S. immigration status on the last day of the tax year. L1B

F Have you ever changed your visa type (nonimmigrant status) or U.S. immigration status? ☐ **Yes** ☒ **No**

If you answered "Yes," indicate the date and nature of the change:

G List all dates you entered and left the United States during 2025. See instructions.

Note: If you're a resident of Canada or Mexico **AND** commute to work in the United States at frequent intervals, **check the box for Canada or Mexico** and skip to item H ☐ Canada ☐ Mexico

Date entered United States mm/dd/yy	Date departed United States mm/dd/yy
08/31/25	

Date entered United States mm/dd/yy	Date departed United States mm/dd/yy

H Give number of days (including vacation, nonworkdays, and partial days) you were present in the United States during: 2023 0 , 2024 0 , and 2025 123 .

I Did you file a U.S. income tax return for any prior year? ☐ **Yes** ☒ **No**

If "Yes," give the latest year and form number you filed:

J Are you filing a return for a trust? ☐ **Yes** ☒ **No**

If "Yes," did the trust have a U.S. or foreign owner under the grantor trust rules, make a distribution or loan to a U.S. person, or receive a contribution from a U.S. person? ☐ **Yes** ☐ **No**

K Did you receive total compensation of $250,000 or more during the tax year? ☐ **Yes** ☒ **No**

If "Yes," did you use an alternative method to determine the source of this compensation? ☐ **Yes** ☐ **No**

L Income Exempt From Tax - If you are claiming exemption from income tax under a U.S. income tax treaty with a foreign country, complete (1) through (3) below. See Pub. 901 for more information on tax treaties.

1. Enter the name of the country, the applicable tax treaty article, the number of months in prior years you claimed the treaty benefit, and the amount of exempt income in the columns below. Attach Form 8833 if required. See instructions.

(a) Country	**(b)** Tax treaty article	**(c)** Number of months claimed in prior tax years	**(d)** Amount of exempt income in current tax year

(e) Total. Enter this amount on Form 1040-NR, line 1k. Do not enter it anywhere else on line 1

2. Were you subject to tax in a foreign country on any of the income shown in 1(d) above? ☐ **Yes** ☐ **No**

3. Are you claiming treaty benefits pursuant to a Competent Authority determination? ☐ **Yes** ☐ **No**

If "Yes," attach a copy of the Competent Authority determination letter to your return.

M Check the applicable box if:

1. This is the first year you are making an election to treat income from real property located in the United States as effectively connected with a U.S. trade or business under section 871(d). See instructions ☐

2. You have made an election in a previous year that has not been revoked, to treat income from real property located in the United States as effectively connected with a U.S. trade or business under section 871(d). See instructions ☐

FORM 1040-NR WAGES RECEIVED AND TAXES WITHHELD STATEMENT 1

T S	EMPLOYER'S NAME	AMOUNT PAID	FEDERAL TAX WITHHELD	STATE TAX WITHHELD	CITY SDI TAX W/H	FICA TAX	MEDICARE TAX
T	SIEMENS MEDICAL SOLUTIONS USA, INC.	51,991.	9,239.	2,191.		3,223.	754.
	TOTALS	51,991.	9,239.	2,191.		3,223.	754.

FORM 1040-NR FEDERAL INCOME TAX WITHHELD - FORM(S) W-2 STATEMENT 2

T S -	DESCRIPTION	AMOUNT
T	SIEMENS MEDICAL SOLUTIONS USA, INC.	9,239.
	TOTAL TO FORM 1040-NR, LINE 25A	9,239.

2025 TAX RETURN FILING INSTRUCTIONS

U.S. NONRESIDENT ALIEN INCOME TAX RETURN

FOR THE YEAR ENDING
December 31, 2025

Prepared For:

Julio Conforto
42259 Fountain Park Dr N Apt. No. 230
Novi, MI 48375

Prepared By:

Deloitte Tax LLP
30 Rockefeller Plaza
New York, NY 10112-0015

Amount of Tax:

Total tax	$	5,876
Less: payments and credits	$	9,239
Plus: interest and penalties	$	0
Overpayment	$	3,363

Overpayment:

Credited to your estimated tax	$	0
Refunded to you	$	3,363

Make Check Payable To:

Not applicable

Mail Tax Return and Check (if applicable) To:

This return has been prepared for electronic filing and the practitioner PIN program has been elected. Please sign and return Form 8879 to our office. We will then transmit your return electronically to the IRS.

Return Must Be Mailed On Or Before:

Return federal Form 8879 to us by April 10, 2026.

Special Instructions:

Your refund will be deposited directly into your account ending in 9246. Refer to Form 1040-NR on the Direct Deposit/Debit Report for complete account information.

Form **8879** (Rev. January 2021)
Department of the Treasury
Internal Revenue Service

IRS e-file Signature Authorization

▶ **ERO must obtain and retain completed Form 8879.**
▶ **Go to www.irs.gov/Form8879 for the latest information.**

OMB No. 1545-0074

Submission Identification Number (SID) ▶

Taxpayer's name	Social security number
JULIO CONFORTO	347 47 4770
Spouse's name	Spouse's social security number

Part I Tax Return Information - Tax Year Ending December 31, 2025 (Enter year you are authorizing.)

Enter whole dollars only on lines 1 through 5.

Note: Form 1040-SS filers use line 4 only. Leave lines 1, 2, 3, and 5 blank.

1	Adjusted gross income	1	51,991.
2	Total tax	2	5,876.
3	Federal income tax withheld from Form(s) W-2 and Form(s) 1099	3	9,239.
4	Amount you want refunded to you	4	3,363.
5	Amount you owe	5	

Part II Taxpayer Declaration and Signature Authorization (Be sure you get and keep a copy of your return)

Under penalties of perjury, I declare that I have examined a copy of the income tax return (original or amended) I am now authorizing, and to the best of my knowledge and belief, it is true, correct, and complete. I further declare that the amounts in Part I above are the amounts from the income tax return (original or amended) I am now authorizing. I consent to allow my intermediate service provider, transmitter, or electronic return originator (ERO) to send my return to the IRS and to receive from the IRS **(a)** an acknowledgement of receipt or reason for rejection of the transmission, **(b)** the reason for any delay in processing the return or refund, and **(c)** the date of any refund. If applicable, I authorize the U.S. Treasury and its designated Financial Agent to initiate an ACH electronic funds withdrawal (direct debit) entry to the financial institution account indicated in the tax preparation software for payment of my federal taxes owed on this return and/or a payment of estimated tax, and the financial institution to debit the entry to this account. This authorization is to remain in full force and effect until I notify the U.S. Treasury Financial Agent to terminate the authorization. To revoke (cancel) a payment, I must contact the U.S. Treasury Financial Agent at **1-888-353-4537**. Payment cancellation requests must be received no later than 2 business days prior to the payment (settlement) date. I also authorize the financial institutions involved in the processing of the electronic payment of taxes to receive confidential information necessary to answer inquiries and resolve issues related to the payment. I further acknowledge that the personal identification number (PIN) below is my signature for the income tax return (original or amended) I am now authorizing and, if applicable, my Electronic Funds Withdrawal Consent.

Taxpayer's PIN: check one box only

☒ I authorize DELOITTE TAX LLP to enter or generate my PIN 14770 as my
ERO firm name **Enter five digits, but don't enter all zeros**
signature on the income tax return (original or amended) I am now authorizing.

☐ I will enter my PIN as my signature on the income tax return (original or amended) I am now authorizing. Check this box **only** if you are entering your own PIN **and** your return is filed using the Practitioner PIN method. The ERO must complete Part III below.

Your signature ▶ _____ Date ▶ _____

Spouse's PIN: check one box only

☐ I authorize _____ to enter or generate my PIN _____ as my
ERO firm name **Enter five digits, but don't enter all zeros**
signature on the income tax return (original or amended) I am now authorizing.

☐ will enter my PIN as my signature on the income tax return (original or amended) I am now authorizing. Check this box **only** if you are entering your own PIN **and** your return is filed using the Practitioner PIN method. The ERO must complete Part III below.

Spouse's signature ▶ _____ Date ▶ _____

Practitioner PIN Method Returns Only - continue below

Part III Certification and Authentication - Practitioner PIN Method Only

ERO's EFIN/PIN. Enter your six-digit EFIN followed by your five-digit self-selected PIN. 131913506 01
Don't enter all zeros

I certify that the above numeric entry is my PIN, which is my signature for the electronic individual income tax return (original or amended) I am now authorized to file for tax year indicated above for the taxpayer(s) indicated above. I confirm that I am submitting this return in accordance with the requirements of the Practitioner PIN method and **Pub. 1345,** Handbook for Authorized IRS *e-file* Providers of Individual Income Tax Returns.

ERO's signature ▶ NEERU GUPTA Date ▶ 02/23/2026

519995 04-01-25

ERO Must Retain This Form - See Instructions
Don't Submit This Form to the IRS Unless Requested To Do So

2025 TAX RETURN FILING INSTRUCTIONS

MICHIGAN INCOME TAX RETURN

FOR THE YEAR ENDING
December 31, 2025

Prepared For:

Julio Conforto
42259 Fountain Park Dr N Apt. No. 230
Novi, MI 48375

Prepared By:

Deloitte Tax LLP
30 Rockefeller Plaza
New York, NY 10112-0015

Amount of Tax:

Total tax	$	1,832
Less: payments and credits	$	2,062
Plus: interest and penalties	$	0
Overpayment	$	230

Overpayment:

Miscellaneous donations	$	0
Credited to your estimated tax	$	0
Refunded to you	$	230

Make Check Payable To:

Not applicable

Mail Tax Return and Check (if applicable) To:

This return has been prepared for electronic filing. Please sign, date, and return federal Form 8879 to our office. We will submit your electronic return to the MDT.

Return Must Be Mailed On Or Before:

Return federal Form 8879 to us by April 10, 2026.

Special Instructions:

Your refund will be deposited directly into your account ending in 9246.

2025 TAX RETURN FILING INSTRUCTIONS

NORTH CAROLINA INCOME TAX RETURN

FOR THE YEAR ENDING
December 31, 2025

Prepared For:

Julio Conforto
42259 Fountain Park Dr N Apt. No. 230
Novi, MI 48375

Prepared By:

Deloitte Tax LLP
30 Rockefeller Plaza
New York, NY 10112-0015

Amount of Tax:

Total tax	$	147
Less: payments and credits	$	129
Plus: interest and penalties	$	0
Balance due	$	18

Overpayment:

Not applicable

Make Check Payable To:

N.C. Dept. of Revenue

Mail Tax Return and Check (if applicable) To:

N.C. Dept. of Revenue
P.O. Box 25000
Raleigh, NC 27640-0640

Return Must Be Mailed On Or Before:

April 15, 2026

Special Instructions:

The return should be signed and dated by you.

Include your social security number and the words "2025 Form D-400" on your check.

We recommend paying your balance due via electronic funds transfer rather than by mail. Retain the payment voucher for payments made electronically. Visit the website below and follow the on-screen instructions to schedule your payment.

www.dornc.com/electronic/eft.html

D-400V (39)
9-2-25

Instructions for Form D-400V, Payment Voucher

Pay Online Now for Free!

Did you know you can submit your payment online for free? If you pay online, you do not have to print and mail the voucher.

To pay online, visit ncdor.gov or use your mobile device to scan the QR code below.

Benefits of Paying Online

- Secure and convenient
- Schedule payments in advance
- Bank drafts (free), MasterCard or Visa ($2 convenience fee for every $100 paid)
- Your payment will be processed efficiently and you will receive a payment confirmation

Prefer to Mail Your Payment?

1. Make your check or money order payable in U.S. dollars to the **NC Department of Revenue. Note:** The Department will not accept a check, money order, or cashier's check unless it is drawn on a U.S. (domestic) bank and the funds are payable in U.S. dollars.
2. Make sure the courtesy box and legal line on your check match.
3. Enter the last four digits of your SSN, Tax Year, and "D-400" on the memo line of your check or money order. If you are filing a joint return, enter the last four digits of the first SSN on your return.
4. Make sure your check or money order is signed.
5. Make sure your name, address, and daytime phone number appear on your check or money order.
6. Cut across the dotted line and send the completed voucher and your check or money order to the "Mail to" address on the voucher.

Important Reminders

- **Do not** print double sided.
- **Do not** mail the voucher if you submitted an electronic payment.
- **Do not** staple, tape, paper clip or otherwise attach your check to the voucher.
- **Do not** fold the voucher or check.
- **Do not** use a photocopy of the voucher.
- **Do not** use another person's voucher.
- **Do not** send cash.
- **Do not** make any modifications to the voucher.
- **Make sure** your signature appears on your check or money order.
- **Make sure** the correct name, address, daytime phone number, and tax year appear on the voucher and your check or money order.
- **Make sure** your full SSN is printed on the voucher and the last four digits of your SSN appear on the check or money order.

Cut Here

569211 09-12-25

D-400V (39) 9-16-08

Individual Income Payment Voucher

North Carolina Department of Revenue

347474770 CONF 4225 48375

JULIO CONFORTO

42259 FOUNTAIN PARK DR N APT NO 230 For Calendar Year 2025

NOVI MI 48375

Taxpayer/Paid Preparer: NEERU GUPTA

Date: 02-23-26 Phone: (212) 492-4000

AMOUNT OF THIS PAYMENT
This must match the amount shown on your check or money order.

$ 18.00

7270139006

20257 3474747700 0000000 06408

Mail to:
NCDOR, PO Box 25000,
Raleigh, NC 27640-0640

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2023** **CALENDAR YEAR 2022**

TAXPAYER IDENTIFICATION

Name:	JULIO CONFORTO	CPF:	079.523.439-20
Date of Birth:	07/26/1991	Voter ID:	096295810639
Do you have a spouse or partner? Yes		CPF of the Spouse or partner:	065.335.259-05

Were there any changes to the registration details? Yes

Is one of the declarants a person with a serious illness or a physical or mental disability? No

Address:	RUA CORONEL JOAQUIM IGNÁCIO TABORDA RIBAS	Number:	727
Unit:	APT. 1003	Neighborhood/District:	BIGORRILHO
City:	CURITIBA	State:	PR
ZIP Code:	80730-330	Area Code/Telephone:	(41) 99851-7658
E-mail:	CONFORTO.JULIO@GMAIL.COM	Area Code/Mobile:	(41) 99851-7658

Occupation Type: 01 - EMPLOYEE OF A PRIVATE SECTOR COMPANY, EXCEPT FINANCIAL INSTITUTIONS
Main Occupation: 214 - ENGINEER, ARCHITECT, AND RELATED PROFESSIONS
Type of Declaration: Original Annual Adjustment Declaration
Receipt Number of the last declaration filed in the 2022 tax year: 02.63.07.09.77-95

DEPENDENTS

CODE	NAME	DATE OF BIRTH	CPF
31	JOAO PEDRO CONFORTO	06/25/1962	450.184.999-15
Email :		Mobile :	
Does the dependent live with the taxpayer? No			
31	FATIMA CARRARO CONFORTO	11/07/1964	531.198.439-20
Email :		Mobile :	
Does the dependent live with the taxpayer? No			

TOTAL DEDUCTION WITH DEPENDENTS 4.550,16

ALIMONY RECIPIENTS

No Information

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY THE TAXPAYER

(Values in Reais)

NAME OF THE PAYING SOURCE	INCOME RECEIVED FROM LEGAL ENTITY	OFFICIAL SOCIAL SECURITY CONTRIBUTION	WITHHELD TAX	13th SALARY	INCOME TAX WITHHELD ON 13th SALARY
SIEMENS HEALTHCARE	181.403,88	9.940,56	32.928,38	11.089,76	3.007,35
CNPJ/CPF: 01.449.930/0001-90					
TOTAL	181.403,88	9.940,56	32.928,38	11.089,76	3.007,35

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY DEPENDENTS

No Information

TAXABLE INCOME RECEIVED FROM INDIVIDUALS AND ABROAD BY THE TAXPAYER

No Information

TAXABLE INCOME RECEIVED FROM INDIVIDUALS AND ABROAD BY DEPENDENTS

No Information

EXEMPT AND NON-TAXABLE INCOME

(Values in Reais)

09. Profits and received dividends — 3.800,54

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	97.521.225/0001-25	MAXI RENDA FDO INV IMOB - FII	203,40
Taxpayer	079.523.439-20	33.958.695/0001-78	UNIPAR CARBOCLORO S.A.	510,07
Taxpayer	079.523.439-20	92.781.335/0001-02	TAURUS ARMAS S.A.	1.624,35
Taxpayer	079.523.439-20	12.648.266/0001-24	AMBIPAR PARTICIPACOES E EMPREENDIMENTOS SA	30,31
Taxpayer	079.523.439-20	08.312.229/0001-73	EZTEC EMPREENDIMENTOS E PARTICIPACOES S/A	420,94
Taxpayer	079.523.439-20	10.215.988/0001-60	COMPANHIA DE LOCACAO DAS AMERICAS	666,06
Taxpayer	079.523.439-20	21.314.559/0001-66	MOVIDA PARTICIPAÇÕES S.A.	254,66
Taxpayer	079.523.439-20	84.693.183/0001-68	SCHULZ S/A	90,75

12. Income from savings accounts, mortgage bonds, agribusiness, and real estate letters of credit (LCA and LCI), and certificates of agribusiness and real estate receivables (CRA and CRI) — 10,56

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	00.000.000/0001-91	BANCO DO BRASIL	10,56

22. Recovery of Losses in Variable Income (stock exchange, commodities, futures and similar markets, and real estate investment funds) — 2.783,04

TOTAL — 6.594,14

INCOME SUBJECT TO EXCLUSIVE/DEFINITIVE TAXATION

(Values in Reais)

01. 13th salary — 11.089,76

05. Net gains in variable income (stock exchange, commodities, futures and similar markets, and real estate investment funds) — 22,78

06. Income from financial investments — 714,54

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	09.346.601/0001-25	B3 S.A. - BRAZIL, BOLSA, BALCAO	284,57
Taxpayer	079.523.439-20	30.680.829/0001-43	NU FINANCEIRA S.A.	429,94
Taxpayer	079.523.439-20	60.701.190/0001-04	ITAÚ UNIBANCO S.A.	0,03

10. Interest on Equity — 668,82

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	10.215.988/0001-60	COMPANHIA DE LOCACAO DAS AMERICAS	149,59
Taxpayer	079.523.439-20	21.314.559/0001-66	MOVIDA PARTICIPACOES S.A.	142,20
Taxpayer	079.523.439-20	30.306.294/0001-45	BANCO BTG PACTUAL S/A.	224,55
Taxpayer	079.523.439-20	23.635.798/0001-43	SCHULZ COMPRESSORES S.A.	152,48

11. Participation in profits or results — 17.334,27

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	01.449.930/0001-90	SIEMENS HEALTHCARE	17.334,27

TOTAL 29.830,17

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY THE TAXPAYER (TAX WITH SUSPENDED EXIGIBILITY)

No Information

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY THE DEPENDENTS (TAX WITH SUSPENDED EXIGIBILITY)

No Information

TAXABLE INCOME FROM LEGAL ENTITY RECEIVED CUMULATIVELY BY THE TAXPAYER

No Information

TAXABLE INCOME FROM LEGAL ENTITY RECEIVED CUMULATIVELY BY THE DEPENDENTS

No Information

TAX PAID / WITHHELD

(Values in Reais)

01. Complementary Tax:	0,00
02. Tax paid abroad by the taxpayer and dependents	0,00
Tax due with income abroad	0,00
Tax due without income abroad	0,00
Difference to be considered for tax calculation (legal limit)	0,00
03. Income Tax Withheld at Source (Law 11.033/2004):	0,00
04. Income Tax Withheld at Source for the Taxpayer	32.928,38
05. Income Tax Withheld at Source for the Dependents	0,00
06. Taxpayer's Carnê-Leão	0,00
07. Dependent's Carnê-Leão	0,00

CARNÊ-LEÃO - (Income tax that must be paid monthly, mandatorily, by individuals residing in Brazil who receive income from another individual or from abroad)

PAYMENTS MADE

(Values in Reais)

CODE	BENEFICIARY NAME	BENEFICIARY CPF/CNPJ	AMOUNT PAID	NON-DEDUCTIBLE PORTION
Taxpayer				
11	MARIA LUIZA KRUEGER ARRUDA	005.837.949-55	250,00	0,00
Description: DENTAL TREATMENT FOR TEETH CLEANING.				
21	LAUTH SERVICOS MEDICOS S/S	27.863.559/0001-00	590,00	0,00
Description: MEDICAL PROCEDURE				
21	LAUTH SERVICOS MEDICOS S/S	27.863.559/0001-00	390,00	0,00
Description: MEDICAL PROCEDURE				
26	CENTRAL NACIONAL UNIMED - COOPERATIVA CENTRAL	02.812.468/0001-06	1.019,02	0,00
Description: INDIVIDUAL HEALTH PLAN PAYMENT.				

PAYMENTS MADE

(Values in Reais)

CODE	BENEFICIARY NAME	BENEFICIARY CPF/CNPJ	AMOUNT PAID	NON-DEDUCTIBLE PORTION
36	PREVISIEMENS	60.540.440/0001-63	6.117,74	0,00
Description: PRIVATE PENSION CONTRIBUTION.				
60	DEBORA DE CASTRO DA ROCHA ADVOCACIA	38.492.806/0001-17	3.500,00	0,00
Description: FEES PAID RELATED TO LEGAL PROCEEDINGS AT TJPR (Court of Justice of Paraná).				
70	ESPECIALE IMOVEIS LTDA - ME	08.738.199/0001-61	4.042,59	0,00
Description: RENT PAYMENT DURING THE YEAR 2021.				
Dependent: JOAO PEDRO CONFORTO				
21	UROCENTRO CLÍNICA DE UROLOGIA CURITIBA LTDA.	02.330.246/0001-57	350,00	0,00
Description: EXAMINATION PERFORMED BY DR. FERNANDO CÉSAR KOLESKI ON PATIENT JOÃO PEDRO CONFORTO				

DONATIONS MADE

No Information

STATEMENTS OF ASSETS AND RIGHTS

(Values in Reais)

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
01	11	TWO-BEDROOM APARTMENT, PURCHASED FROM SCHABATURA FOR R$501.816,11, WITH R$30.000,00 PAID IN CASH, ANOTHER R$78.435,14 PAID WITH FGTS FUNDS, AND THE REMAINING R$393.380,97 FINANCED BY BANCO DO BRASIL (CNPJ 00.000.000/0001-91), PURSUANT TO CONTRACT 916.500.341 SIGNED ON 11/01/2021, WITH TWO INSTALLMENTS OF R$4.256,83 PAID IN 2021. IN THE YEAR 2022, 12 FINANCING INSTALLMENTS WERE PAID, TOTALING R$ 36.836,33. TOTAL AMOUNT PAID FOR THE PROPERTY IS R$149.528,30.	112.691,97	149.528,30

105 - Brazil
Municipal Registration (IPTU): 11100140144012
Address: CORONEL JOAQUIM IGNACIO TABORDA RIBAS No.: 727
Unit: APARTMENT 1003 Neighborhood: BIGORRILHO
City: CURITIBA State: PR ZIP Code: 80730-330
Total Area: 77,2 m² Acquisition Date: 11/05/2021
Registered at the Notary Office: Yes Name of the Registry office: 1st REAL ESTATE REGISTRY OFFICE
Registration: 66429/66440

03	01	COMPANY EZTEC EMPREENDIMENTOS E PARTICIPACOES SA - EZTC3 - CNPJ 08.312.229/0001-73. A QUANTITY OF 600 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$36,89, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	20.453,00	22.134,00

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 67.620.377/0001-14

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
		Traded on the Stock Exchange: Yes Trading Code: EZTC3		
03	01	COMPANY TAURUS ARMAS SA - TASA4 - CNPJ 61.532.644/0001-15. A QUANTITY OF 1000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$12,15, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	12.150,00	0,00
		105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20 CNPJ: 61.532.644/0001-15 Traded on the Stock Exchange: Yes Trading Code: TASA4		
03	01	COMPANY SCHULZ S.A - SHUL4 - CNPJ 84.693.183/0001-68. A QUANTITY OF 2000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$4,74, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	4.995,00	9.480,00
		105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20 CNPJ: 84.693.183/0001-68 Traded on the Stock Exchange: Yes Trading Code: SHUL4		
03	01	COMPANY PETRO RIO S.A. - PRIO3 - CNPJ 10.629.105/0001-68. A QUANTITY OF 1000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$21,36 ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	25.844,00	21.360,00
		105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20 CNPJ: 10.629.105/0001-68 Traded on the Stock Exchange: Yes Trading Code: PRIO3		
03	01	COMPANY GAFISA S.A. - GFSA3 - CNPJ 01.545.826/0001-07. A QUANTITY OF 600 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$35,76, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	20.081,00	21.456,00
		105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20 CNPJ: 01.545.826/0001-07 Traded on the Stock Exchange: Yes Trading Code: GFSA3		
03	01	COMPANY BRASIL RESSEGUROS S.A. - IRBR3 - CNPJ 33.376.989/0001-91. A QUANTITY OF 12000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$4,47, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	42.600,00	53.640,00
		105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20 CNPJ: 33.376.989/0001-91 Traded on the Stock Exchange: Yes Trading Code: IRBR3		

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
03	01	COMPANY CIA LOCACAO DAS AMERICAS - LCAM3 - CNPJ 10.215.988/0001-60. A QUANTITY OF 1100 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$27,24, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	29.965,00	0,00

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 10.215.988/0001-60
Traded on the Stock Exchange: Yes Trading Code: LCAM3

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
03	01	COMPANY MOVIDA PARTICIPACOES S.A. - MOVI3 - CNPJ 21.314.559/0001-66. A QUANTITY OF 1600 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$16,10, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	9.530,00	25.746,00

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 21.314.559/0001-66
Traded on the Stock Exchange: Yes Trading Code: MOVI3

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
03	01	COMPANY OI S.A. - OIBR3 - CNPJ 76.535.764/0001-43. A QUANTITY OF 1000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$7,14, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	3.962,00	7.140,00

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 76.535.764/0001-43
Traded on the Stock Exchange: Yes Trading Code: OIBR3

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
03	01	COMPANY BANCO BTG PACTUAL S.A. - BPAC11 - CNPJ 30.306.294/0001-45. A QUANTITY OF 600 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$29,03, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	14.821,00	17.418,00

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 30.306.294/0001-45
Traded on the Stock Exchange: Yes Trading Code: BPAC11

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
03	01	COMPANY AMBIPAR - AMBP3 - CNPJ 12.648.266/0001-24. A QUANTITY OF 500 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$31,27, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	0,00	15.635,00

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 12.648.266/0001-24
Traded on the Stock Exchange: Yes Trading Code: AMBP3

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
03	01	COMPANY UNIPAR CARBOCLORO S.A - UNIP6 - CNPJ 33.958.695/0001-78. A QUANTITY OF 110 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$90,59, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	0,00	9.964,90

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 33.958.695/0001-78
Traded on the Stock Exchange: Yes Trading Code: UNIP6

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
03	01	COMPANY PETRORECÔNCAVO S.A - RECV3 - CNPJ 03.342.704/0001-30. A QUANTITY OF 500 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$30,60, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	0,00	15.300,00

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 03.342.704/0001-30
Traded on the Stock Exchange: Yes Trading Code: RECV3

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
04	01	SAVINGS ACCOUNT BALANCE AT BANCO DO BRASIL	3,56	0,00

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 00.000.000/0001-91
Bank: 001 Branch: 0406 Account: 38646-4

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
06	01	AVAILABLE BALANCE IN BANCO DO BRASIL CHECKING ACCOUNT.	13.390,06	18.849,92

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 00.000.000/0001-91
Bank: 001 Branch: 0406 Account: 38646-4

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
06	01	AVAILABLE BALANCE IN BANCO XP CHECKING ACCOUNT.	18.113,17	0,00

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 33.264.668/0001-03
Bank: 348 Branch: 0001 Account: 217928-2

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
06	01	AVAILABLE CHECKING ACCOUNT BALANCE AT BANCO NU PAGAMENTOS S.A.	4.889,94	13.403,34

105 - Brazil
Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 30.680.829/0001-43
Bank: 260 Branch: 0001 Account: 36697235-7

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

GROUP	CÓDIGO	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022
07	03	MAXI RENDA FDO INV IMOB - FII - MXRF11 INVESTMENT FUND - CNPJ 97.521.225/0001-25. A QUANTITY OF 330 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$10,11, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	3.335,62	0,00
105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20 CNPJ do Fundo: 97.521.225/0001-25 Traded on the Stock Exchange: Yes Trading Code: MXRF11				
08	99	A QUANTITY OF 372.654,59 QBIT CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$0,0028266, TOTALING AN INVESTMENT OF R$1.053,36, ACQUIRED THROUGH BROKER BINANCE.	1.053,36	1.053,36
105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20				
08	99	A QUANTITY OF 1.06808 SOLANA CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$1238,99, TOTALING AN INVESTMENT OF R$1323,35, ACQUIRED THROUGH BROKER BINANCE.	1.323,35	1.323,35
105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20				
08	99	A QUANTITY OF 610,37 VECHAIR CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$1,0407, TOTALING AN INVESTMENT OF R$635,22, ACQUIRED THROUGH BROKER BINANCE.	635,22	635,22
105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20				
08	99	A QUANTITY OF 53,26 POLYGON CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$9,9389, TOTALING AN INVESTMENT OF R$529,35, ACQUIRED THROUGH BROKER BINANCE.	529,35	529,35
105 - Brazil Asset or right belonging to: Taxpayer CPF: 079.523.439-20				
TOTAL			340.366,60	404.596,74

ENCUMBRANCES AND REAL LIABILITIES

(Values in Reais)

CODE	DISCLOSURE	STATUS ON 12/31/2021	STATUS ON 12/31/2022	AMOUNT PAID IN 2022
12	IBOVESPA INDEX FUND - BOVA11 - CNPJ 10.406.511/0001-61. A TOTAL QUANTITY OF 380 SHARES WERE SOLD AT AN AVERAGE PRICE OF R$113,30, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	43.093,40	43.093,40	0,00
12	FINANCING CARRIED OUT FOR THE ACQUISITION OF CUSTOM-BUILT FURNITURE WITH THE COMPANY STUDIO VERSATILE COMÉRCIO DE MÓVEIS PLANEJADOS LTDA CNPJ 20.019.649/0001-61 AND THE FINANCIAL INSTITUTION AYMORE CREDITO, FINANCIAMENTO E INVESTIMENTO S.A. CNPJ 07.707.650/0001-10. THE TOTAL AMOUNT WAS R$26,000.00 CONTRACTED IN MARCH 2021, PAID IN 10 INSTALLMENTS. THE AMOUNT WAS FULLY PAID OFF IN THE YEAR 2022.	5.200,00	0,00	5.200,00
11	LOAN TAKEN OUT IN FEBRUARY 2022 IN THE TOTAL AMOUNT OF R$18.030,09 WITH BANCO DO BRASIL APPROVAL. INTEREST PAID WAS R$1.114,08.	0,00	0,00	19.144,17
TOTAL		48.293,40	43.093,40	24.344,17

DONATIONS TO POLITICAL PARTIES AND CANDIDATES FOR ELECTIVE OFFICES

No Information

STATEMENT OF RURAL ACTIVITY - BRAZIL

IDENTIFICATION DATA OF THE EXPLORED PROPERTY - BRAZIL

No Information

INCOME AND EXPENSES - BRAZIL

No Information

CALCULATION OF THE RESULT - BRAZIL

No Information

LIVESTOCK ACTIVITY - BRAZIL

No Information

ASSETS OF RURAL ACTIVITY - BRAZIL

No Information

DEBTS RELATED TO RURAL ACTIVITY - BRAZIL

No Information

STATEMENT OF RURAL ACTIVITY - ABROAD

IDENTIFICATION DATA OF THE EXPLORED PROPERTY - ABROAD

No Information

INCOME AND EXPENSES - ABROAD

No Information

CALCULATION OF THE RESULT - ABROAD

No Information

LIVESTOCK ACTIVITY - ABROAD

No Information

ASSETS OF RURAL ACTIVITY - ABROAD

No Information

DEBTS RELATED TO RURAL ACTIVITY - ABROAD

No Information

STATEMENT OF CAPITAL GAINS CALCULATION

No Information

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2023** **CALENDAR YEAR 2022**

VARIABLE INCOME - COMMON OPERATIONS/DAYTRADE - TAXPAYER

NET GAINS OR LOSSES - JAN

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	157,96	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	157,96	0,00
Negative result until the previous month	7.196,56	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	7.038,60	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - FEB

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	7.038,60	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	7.038,60	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - MAR

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	686,87	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	686,87	0,00
Negative result until the previous month	7.038,60	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	6.351,73	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - APR

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	6.351,73	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	6.351,73	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - MAY

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	6.351,73	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	6.351,73	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - JUN

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	6.351,73	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	6.351,73	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - JUL

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	6.351,73	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	6.351,73	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2023** **CALENDAR YEAR 2022**

NET GAINS OR LOSSES - AUG (Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	44,21	-0,29
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	44,21	-0,29
Negative result until the previous month	6.351,73	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	6.307,52	0,29
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - SEP

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	784,65	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	784,65	0,00
Negative result until the previous month	6.307,52	0,29
TAXABLE BASE	0,00	0,00
Loss to be offset	5.522,87	0,29
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - OCT

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	5.522,87	0,29
TAXABLE BASE	0,00	0,00
Loss to be offset	5.522,87	0,29
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - NOV

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	5.522,87	0,29
TAXABLE BASE	0,00	0,00
Loss to be offset	5.522,87	0,29
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - DEC

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	1.109,64	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	1.109,64	0,00
Negative result until the previous month	5.522,87	0,29
TAXABLE BASE	0,00	0,00
Loss to be offset	4.413,23	0,29
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

VARIABLE INCOME - COMMON OPERATIONS/DAYTRADE - DEPENDENTS

No Information

REAL ESTATE INVESTMENT FUNDS OR IN AGRO-INDUSTRIAL PRODUCTION CHAINS - TAXPAYER

NET GAINS OR LOSSES

(Values in Reais)

MONTH	January	February	March	April	May	June
NET RESULT OF THE MONTH	0,00	0,00	0,00	0,00	22,76	0,00
NEGATIVE RESULT UNTIL THE PREVIOUS MONTH	0,00	0,00	0,00	0,00	0,00	0,00
TAXABLE BASE	0,00	0,00	0,00	0,00	22,76	0,00
LOSS TO BE OFFSET	0,00	0,00	0,00	0,00	0,00	0,00
TAX RATE	0,00	0,00	0,00	0,00	20,00	0,00
TAX DUE	0,00	0,00	0,00	0,00	4,55	0,00
TAX WITHHELD IN PRIOR MONTHS	0,00	0,00	0,00	0,00	0,00	0,00
TAX WITHHELD IN THE CURRENT MONTH	0,00	0,00	0,00	0,00	0,00	0,00
TAX TO BE OFFSET	0,00	0,00	0,00	0,00	0,00	0,00
TAX PAYABLE	0,00	0,00	0,00	0,00	4,55	0,00
TAX PAID	0,00	0,00	0,00	0,00	0,00	0,00

MONTH	July	August	September	October	November	December
NET RESULT OF THE MONTH	0,02	0,00	0,00	0,00	0,00	0,00
NEGATIVE RESULT UNTIL THE PREVIOUS MONTH	0,00	0,00	0,00	0,00	0,00	0,00
TAXABLE BASE	0,02	0,00	0,00	0,00	0,00	0,00
LOSS TO BE OFFSET	0,00	0,00	0,00	0,00	0,00	0,00
TAX RATE	20,00	0,00	0,00	0,00	0,00	0,00
TAX DUE	0,00	0,00	0,00	0,00	0,00	0,00
TAX WITHHELD IN PRIOR MONTHS	0,00	0,00	0,00	0,00	0,00	0,00
TAX WITHHELD IN THE CURRENT MONTH	0,00	0,00	0,00	0,00	0,00	0,00
TAX TO BE OFFSET	0,00	0,00	0,00	0,00	0,00	0,00
TAX PAYABLE	0,00	0,00	0,00	0,00	0,00	0,00
TAX PAID	0,00	0,00	0,00	0,00	0,00	0,00

REAL ESTATE INVESTMENT FUNDS OR IN AGRO-INDUSTRIAL PRODUCTION CHAINS - DEPENDENTS

No Information

DONATIONS DIRECTLY IN THE DECLARATION – ECA (STATUTE OF THE CHILD AND ADOLESCENT)

No Information

DONATIONS DIRECTLY IN THE DECLARATION - ELDERLY

No Information

SUMMARY — TAXATION USING THE LEGAL DEDUCTION

TAXABLE INCOME

Received from Legal Entity by the taxpayer	181.403,88
Received from Legal Entity by dependents	0,00
Received from Individual/Abroad by the taxpayer	0,00
Received from Individual/Abroad by Dependents	0,00
Received Cumulatively by the taxpayer	0,00
Received Cumulatively by dependents	0,00
Taxable Income from Rural Activity	0,00
TOTAL	181.403,88

DEDUCTIONS

Contributions to the official and closed complementary pension systems referred to in § 15 of Article 40 of the CF (Federal Constitution)/1988 (up to the sponsor limit)	9.940,56
Contribution to the official pension system (Income received cumulatively)	0,00
Contribution to the complementary pension system, including the amount for the closed systems referred to in Article 40, § 15, of the CF (Federal Constitution)/1988, which exceeds the sponsor's limit	6.117,74
Dependents	4.550,16
Education Expenses	0,00
Medical Expenses	2.599,02
Judicial Alimony	0,00
Alimony by Public Deed	0,00
Judicial Alimony (Income received cumulatively)	0,00
Cash Book	0,00
TOTAL	23.207,48

TAX DUE

Taxable Base	158.196,40
Tax Due	33.071,69
Incentive Deduction	0,00
Tax Due I	33.071,69
Tax Due RRA (on received accumulated income)	0,00
Effective Tax Rate (%)	18,23
Total Tax Due	33.071,69

TAX PAID

Tax Withheld at Source by the Taxpayer	32.928,38
Tax Withheld at Source by Dependents	0,00
Taxpayer's Carnê-Leão	0,00
Dependents' Carnê-Leão	0,00
Complementary Tax	0,00
Tax Paid Abroad	0,00
Tax Withheld at Source (Law No. 11.033/2004)	0,00
Tax Withheld RRA	0,00
Total Tax Paid	32.928,38

TAX TO BE REFUNDED	0,00
BALANCE OF TAX PAYABLE	143,31

INSTALLMENT PLAN

Installment Amount	143,31
Number of Installments	1

BANKING INFORMATION

Automatic Debit: NO

Bank	
Branch (without verification digit)	
Account for debit	

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2023** **CALENDAR YEAR 2022**

ASSET EVOLUTION

Assets and Rights on 12/31/2021	340.366,60
Assets and Rights on 12/31/2022	404.596,74
Encumbrances and Real Liabilities on 12/31/2021	48.293,40
Encumbrances and Real Liabilities on 12/31/2022	43.093,40

OTHER INFORMATION

Exempt and non-taxable income	6.594,14
Income subject to exclusive/definitive taxation	29.830,17
Taxable income - tax with suspended liability	0,00
Judicial Deposits of Tax	0,00
Tax Paid on Capital Gains	0,00
Tax Paid on Capital Gains Foreign Currency - Assets, Rights, and Financial Investments	0,00
Total tax withheld at source (Law No. 11.033/2004), as per the data provided by the taxpayer	0,00
Tax Paid on Variable Income	0,00
Donations to Political Parties and Candidates for Elective Office	0,00
Tax Payable on Capital Gain - Foreign Currency in Cash	0,00
Deferred Tax on Capital Gains	0,00
Tax Due on Capital Gains	0,00
Tax Due on Net Income from Variable Income	4,55
Tax Due on Capital Gains in Foreign Currency - Assets, Rights, and Financial Investments	0,00

I, André Vinícius Inacio Penna Mello, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: August 3, 2026

NOME: JULIO CONFORTO
CPF: 079.523.439-20 **IMPOSTO SOBRE A RENDA - PESSOA FÍSICA**
DECLARAÇÃO DE AJUSTE ANUAL **EXERCÍCIO 2023** **ANO-CALENDÁRIO 2022**

IDENTIFICAÇÃO DO CONTRIBUINTE

Nome:	JULIO CONFORTO	CPF:	079.523.439-20
Data de Nascimento:	26/07/1991	Título Eleitoral:	096295810639
Possui cônjuge ou companheiro(a)?	Sim	CPF do cônjuge ou companheiro(a):	065.335.259-05
Houve alteração de dados cadastrais?	Sim		
Um dos declarantes é pessoa com doença grave ou portadora de deficiência física ou mental?	Não		

Endereço:	RUA CORONEL JOAQUIM IGNÁCIO TABORDA RIBAS	Número:	727
Complemento:	APTO 1003	Bairro/Distrito:	BIGORRILHO
Município:	CURITIBA	UF:	PR
CEP:	80730-330	DDD/Telefone:	(41) 99851-7658
E-mail:	CONFORTO.JULIO@GMAIL.COM	DDD/Celular:	(41) 99851-7658

Natureza da Ocupação:	01 - EMPREGADO DE EMPRESA DO SETOR PRIVADO, EXCETO DE INSTITUIÇÕES FINANCEIRAS
Ocupação Principal:	214 - ENGENHEIRO, ARQUITETO E AFINS
Tipo de declaração:	Declaração de Ajuste Anual Original

Nº do recibo da última declaração entregue do exercício de 2022: 02.63.07.09.77-95

DEPENDENTES

CÓDIGO	NOME	DATA DE NASCIMENTO	CPF
31	JOAO PEDRO CONFORTO	25/06/1962	450.184.999-15
Email :		Celular :	
Dependente mora com o titular da declaração? Não			
31	FATIMA CARRARO CONFORTO	07/11/1964	531.198.439-20
Email :		Celular :	
Dependente mora com o titular da declaração? Não			

TOTAL DE DEDUÇÃO COM DEPENDENTES 4.550,16

ALIMENTANDOS

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELO TITULAR

(Valores em Reais)

NOME DA FONTE PAGADORA	REND. RECEBIDOS DE PES. JURÍDICA	CONTR. PREVID. OFICIAL	IMPOSTO RETIDO NA FONTE	13º SALÁRIO	IRRF SOBRE 13º SALÁRIO
SIEMENS HEALTHCARE	181.403,88	9.940,56	32.928,38	11.089,76	3.007,35
CNPJ/CPF: 01.449.930/0001-90					
TOTAL	181.403,88	9.940,56	32.928,38	11.089,76	3.007,35

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELOS DEPENDENTES

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA FÍSICA E DO EXTERIOR PELO TITULAR

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA FÍSICA E DO EXTERIOR PELOS DEPENDENTES

Sem Informações

PROTEGIDA POR SIGILO FISCAL

RENDIMENTOS ISENTOS E NÃO TRIBUTÁVEIS

(Valores em Reais)

09. Lucros e dividendos recebidos — 3.800,54

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	97.521.225/0001-25	MAXI RENDA FDO INV IMOB - FII	203,40
Titular	079.523.439-20	33.958.695/0001-78	UNIPAR CARBOCLORO S.A.	510,07
Titular	079.523.439-20	92.781.335/0001-02	TAURUS ARMAS S.A.	1.624,35
Titular	079.523.439-20	12.648.266/0001-24	AMBIPAR PARTICIPACOES E EMPREENDIMENTOS SA	30,31
Titular	079.523.439-20	08.312.229/0001-73	EZTEC EMPREENDIMENTOS E PARTICIPACOES S/A	420,94
Titular	079.523.439-20	10.215.988/0001-60	COMPANHIA DE LOCACAO DAS AMERICAS	666,06
Titular	079.523.439-20	21.314.559/0001-66	MOVIDA PARTICIPAÇÕES S.A.	254,66
Titular	079.523.439-20	84.693.183/0001-68	SCHULZ S/A	90,75

12. Rendimentos de cadernetas de poupança, letras hipotecárias, letras de crédito do agronegócio e imobiliário (LCA e LCI) e certificados de recebíveis do agronegócio e imobiliários (CRA e CRI) — 10,56

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	00.000.000/0001-91	BANCO DO BRASIL	10,56

22. Recuperação de Prejuízos em Renda Variável (bolsa de valores, de mercadorias, de futuros e assemelhados e fundos de investimento imobiliário) — 2.783,04

TOTAL — 6.594,14

RENDIMENTOS SUJEITOS À TRIBUTAÇÃO EXCLUSIVA / DEFINITIVA

(Valores em Reais)

01. 13º salário — 11.089,76

05. Ganhos líquidos em renda variável (bolsa de valores, de mercadorias, de futuros e assemelhados e fundos de investimento imobiliário) — 22,78

06. Rendimentos de aplicações financeiras — 714,54

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	09.346.601/0001-25	B3 S.A. - BRASIL, BOLSA, BALCAO	284,57
Titular	079.523.439-20	30.680.829/0001-43	NU FINANCEIRA S.A.	429,94
Titular	079.523.439-20	60.701.190/0001-04	ITAÚ UNIBANCO S.A.	0,03

10. Juros sobre capital próprio — 668,82

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	10.215.988/0001-60	COMPANHIA DE LOCACAO DAS AMERICAS	149,59
Titular	079.523.439-20	21.314.559/0001-66	MOVIDA PARTICIPACOES S.A.	142,20
Titular	079.523.439-20	30.306.294/0001-45	BANCO BTG PACTUAL S/A.	224,55
Titular	079.523.439-20	23.635.798/0001-43	SCHULZ COMPRESSORES S.A.	152,48

11. Participação nos lucros ou resultados — 17.334,27

PROTEGIDA POR SIGILO FISCAL

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	01.449.930/0001-90	SIEMENS HEALTHCARE	17.334,27

TOTAL 29.830,17

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELO TITULAR (IMPOSTO COM EXIGIBILIDADE SUSPENSA)

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELOS DEPENDENTES (IMPOSTO COM EXIGIBILIDADE SUSPENSA)

Sem Informações

RENDIMENTOS TRIBUTÁVEIS DE PESSOA JURÍDICA RECEBIDOS ACUMULADAMENTE PELO TITULAR

Sem Informações

RENDIMENTOS TRIBUTÁVEIS DE PESSOA JURÍDICA RECEBIDOS ACUMULADAMENTE PELOS DEPENDENTES

Sem Informações

IMPOSTO PAGO / RETIDO (Valores em Reais)

01. Imposto complementar	0,00
02. Imposto pago no exterior pelo titular e pelos dependentes	0,00
Imposto devido com os rendimentos no exterior	0,00
Imposto devido sem os rendimentos no exterior	0,00
Diferença a ser considerada para cálculo do imposto (limite legal)	0,00
03. Imposto sobre a renda na fonte (Lei 11.033/2004)	0,00
04. Imposto retido na fonte do titular	32.928,38
05. Imposto retido na fonte dos dependentes	0,00
06. Carnê-Leão do titular	0,00
07. Carnê-Leão dos dependentes	0,00

PAGAMENTOS EFETUADOS (Valores em Reais)

CÓD.	NOME DO BENEFICIÁRIO	CPF/CNPJ DO BENEFICIÁRIO	VALOR PAGO	PARC. NÃO DEDUTÍVEL
Titular				
11	MARIA LUIZA KRUEGER ARRUDA	005.837.949-55	250,00	0,00
Descrição: TRATAMENTO ODONTOLÓGICO PARA LIMPEZA DOS DENTES.				
21	LAUTH SERVICOS MEDICOS S/S	27.863.559/0001-00	590,00	0,00
Descrição: PROCEDIMENTO MÉDICO				
21	LAUTH SERVICOS MEDICOS S/S	27.863.559/0001-00	390,00	0,00
Descrição: PROCEDIMENTO MÉDICO				
26	CENTRAL NACIONAL UNIMED - COOPERATIVA CENTRAL	02.812.468/0001-06	1.019,02	0,00
Descrição: PAGAMENTO DO PLANO DE SAUDE INDIVIDUAL.				

PROTEGIDA POR SIGILO FISCAL

PAGAMENTOS EFETUADOS

(Valores em Reais)

CÓD.	NOME DO BENEFICIÁRIO	CPF/CNPJ DO BENEFICIÁRIO	VALOR PAGO	PARC. NÃO DEDUTÍVEL
36	PREVISIEMENS	60.540.440/0001-63	6.117,74	0,00
Descrição: CONTRIBUIÇÃO PARA A PREVIDÊNCIA PRIVADA.				
60	DEBORA DE CASTRO DA ROCHA ADVOCACIA	38.492.806/0001-17	3.500,00	0,00
Descrição: HONORÁRIOS PAGOS REFERENTE AO PROCESSO JUDICIAL NO TJPR.				
70	ESPECIALE IMOVEIS LTDA - ME	08.738.199/0001-61	4.042,59	0,00
Descrição: PAGAMENTO DE ALUGUEL DURANTE O ANO DE 2021.				
Dependente: JOAO PEDRO CONFORTO				
21	UROCENTRO CLÍNICA DE UROLOGIA CURITIBA LTDA.	02.330.246/0001-57	350,00	0,00
Descrição: EXAME REALIZADO PELO DR. FERNANDO CÉSAR KOLESKI NO PACIENTE JOÃO PEDRO CONFORTO				

DOAÇÕES EFETUADAS

Sem Informações

DECLARAÇÃO DE BENS E DIREITOS

(Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2021	SITUAÇÃO EM 31/12/2022
01	11	APARTAMENTO DE DOIS DORMITORIOS, ADQUIRIDO DA SCHABATURA POR R$501.816,11, SENDO R$30.000,00 PAGOS A VISTA, OUTROS R$78.435,14 PAGOS COM RECURSOS DO FGTS E O R$393.380,97 RESTANTES FINANCIADOS PELO BANCO DO BRASIL (CNPJ 00.000.000/0001-91), CONFORME CONTRATO 916.500.341 ASSINADO EM 01/11/2021, SENDO DUAS PARCELAS DE R$4.256,83 PAGAS EM 2021. NO ANO DE 2022 FORAM PAGOS 12 PARCELAS DO FINANCIAMENTO, TOTALIZANDO O VALOR DE R$ 36.836,33. VALOR TOTAL PAGO NO IMÓVEL É DE R$149.528,30.	112.691,97	149.528,30

105 - BRASIL
Inscrição Municipal (IPTU): 11100140144012
Logradouro: CORONEL JOAQUIM IGNACIO TABORDA RIBAS Nº: 727
Comp.: APARTAMENTO 1003 Bairro: BIGORRILHO
Município: CURITIBA UF: PR CEP: 80730-330
Área Total: 77,2 m² Data de Aquisição: 05/11/2021
Registrado no Cartório: Sim Nome Cartório: 1O REGISTRO DE IMOVEIS
Matrícula: 66429/66440

03	01	EMPRESA EZTEC EMPREENDIMENTOS E PARTICIPACOES SA - EZTC3 - CNPJ 08.312.229/0001-73. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 600 A UM PRECO MEDIO DE R$36,89, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	20.453,00	22.134,00

105 - BRASIL
Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 67.620.377/0001-14

PROTEGIDO POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS (Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2021	SITUAÇÃO EM 31/12/2022
		Negociados em Bolsa: Sim Código de Negociação: EZTC3		
03	01	EMPRESA TAURUS ARMAS SA - TASA4 - CNPJ 61.532.644/0001-15. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1000 A UM PRECO MEDIO DE R$12,15, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	12.150,00	0,00
		105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 61.532.644/0001-15 Negociados em Bolsa: Sim Código de Negociação: TASA4		
03	01	EMPRESA SCHULZ S.A - SHUL4 - CNPJ 84.693.183/0001-68. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 2000 A UM PRECO MEDIO DE R$4,74, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	4.995,00	9.480,00
		105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 84.693.183/0001-68 Negociados em Bolsa: Sim Código de Negociação: SHUL4		
03	01	EMPRESA PETRO RIO S.A. - PRIO3 - CNPJ 10.629.105/0001-68. FORAM COMPRADAS UMA QUANTIDADE DE ACÕES DE 1000 A UM PRECO MEDIO DE R$21,36 ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	25.844,00	21.360,00
		105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 10.629.105/0001-68 Negociados em Bolsa: Sim Código de Negociação: PRIO3		
03	01	EMPRESA GAFISA S.A. - GFSA3 - CNPJ 01.545.826/0001-07. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 600 A UM PRECO MEDIO DE R$35,76, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	20.081,00	21.456,00
		105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 01.545.826/0001-07 Negociados em Bolsa: Sim Código de Negociação: GFSA3		
03	01	EMPRESA BRASIL RESSEGUROS S.A. - IRBR3 - CNPJ 33.376.989/0001-91. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 12000 A UM PRECO MEDIO DE R$4,47, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	42.600,00	53.640,00
		105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 33.376.989/0001-91 Negociados em Bolsa: Sim Código de Negociação: IRBR3		

PROTEGIDA POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS (Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2021	SITUAÇÃO EM 31/12/2022
03	01	EMPRESA CIA LOCACAO DAS AMERICAS - LCAM3 - CNPJ 10.215.988/0001-60. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1100 A UM PRECO MEDIO DE R$27,24, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 10.215.988/0001-60 Negociados em Bolsa: Sim Código de Negociação: LCAM3	29.965,00	0,00
03	01	EMPRESA MOVIDA PARTICIPACOES S.A. - MOVI3 - CNPJ 21.314.559/0001-66. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1600 A UM PRECO MEDIO DE R$16,10, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 21.314.559/0001-66 Negociados em Bolsa: Sim Código de Negociação: MOVI3	9.530,00	25.746,00
03	01	EMPRESA OI S.A. - OIBR3 - CNPJ 76.535.764/0001-43. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1000 A UM PRECO MEDIO DE R$7,14, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 76.535.764/0001-43 Negociados em Bolsa: Sim Código de Negociação: OIBR3	3.962,00	7.140,00
03	01	EMPRESA BANCO BTG PACTUAL S.A. - BPAC11 - CNPJ 30.306.294/0001-45. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 600 A UM PRECO MEDIO DE R$29,03, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 30.306.294/0001-45 Negociados em Bolsa: Sim Código de Negociação: BPAC11	14.821,00	17.418,00
03	01	EMPRESA AMBIPAR - AMBP3 - CNPJ 12.648.266/0001-24. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 500 A UM PRECO MEDIO DE R$31,27, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 12.648.266/0001-24 Negociados em Bolsa: Sim Código de Negociação: AMBP3	0,00	15.635,00

PROTEGIDA POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS (Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2021	SITUAÇÃO EM 31/12/2022
03	01	EMPRESA UNIPAR CARBOCLORO S.A - UNIP6 - CNPJ 33.958.695/0001-78. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 110 A UM PRECO MEDIO DE R$90,59, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	0,00	9.964,90
105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 33.958.695/0001-78 Negociados em Bolsa: Sim Código de Negociação: UNIP6				
03	01	EMPRESA PETRORECÔNCAVO S.A - RECV3 - CNPJ 03.342.704/0001-30. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 500 A UM PRECO MEDIO DE R$30,60, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	0,00	15.300,00
105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 03.342.704/0001-30 Negociados em Bolsa: Sim Código de Negociação: RECV3				
04	01	DINHEIRO NA CADERNETA DE POUPANCA NO BANCO DO BRASIL	3,56	0,00
105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 00.000.000/0001-91 Banco: 001 Agência: 0406 Conta: 38646-4				
06	01	DINHEIRO DISPONIVEL NA CONTA CORRENTE DO BANCO DO BRASIL.	13.390,06	18.849,92
105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 00.000.000/0001-91 Banco: 001 Agência: 0406 Conta: 38646-4				
06	01	DINHEIRO DISPONIVEL NA CONTA CORRENTE DO BANCO DO XP.	18.113,17	0,00
105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 33.264.668/0001-03 Banco: 348 Agência: 0001 Conta: 217928-2				
06	01	SALDO EM CONTA CORRENTE DISPONIVEL NO BANCO NU PAGAMENTOS S.A.	4.889,94	13.403,34
105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 30.680.829/0001-43 Banco: 260 Agência: 0001 Conta: 36697235-7				

PROTEGIDA POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS (Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2021	SITUAÇÃO EM 31/12/2022
07	03	FUNDO IMOBILIARIO MAXI RENDA FDO INV IMOB - FII - MXRF11 - CNPJ 97.521.225/0001-25. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 330 A UM PRECO MEDIO DE R$10,11, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	3.335,62	0,00
105 - BRASIL				
Bem ou direito pertencente ao: Titular		CPF: 079.523.439-20		
CNPJ do Fundo: 97.521.225/0001-25				
Negociados em Bolsa: Sim		Código de Negociação: MXRF11		
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS QBIT 372.654,59 A UM PRECO MEDIO DE R$0,0028266, TOTALIZANDO O INVESTIMENTO DE R$1.053,36, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE.	1.053,36	1.053,36
105 - BRASIL				
Bem ou direito pertencente ao: Titular		CPF: 079.523.439-20		
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS SOLANA 1.06808 A UM PRECO MEDIO DE R$1238,99, TOTALIZANDO O INVESTIMENTO DE R$1323,35, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE.	1.323,35	1.323,35
105 - BRASIL				
Bem ou direito pertencente ao: Titular		CPF: 079.523.439-20		
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS VECHAIR 610,37 A UM PRECO MEDIO DE R$1,0407, TOTALIZANDO O INVESTIMENTO DE R$635,22, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE.	635,22	635,22
105 - BRASIL				
Bem ou direito pertencente ao: Titular		CPF: 079.523.439-20		
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS POLYGON 53,26 A UM PRECO MEDIO DE R$9,9389, TOTALIZANDO O INVESTIMENTO DE R$529,35, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE.	529,35	529,35
105 - BRASIL				
Bem ou direito pertencente ao: Titular		CPF: 079.523.439-20		
TOTAL			340.366,60	404.596,74

PROTEGIDA POR SIGILO FISCAL

DÍVIDAS E ÔNUS REAIS (Valores em Reais)

CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2021	SITUAÇÃO EM 31/12/2022	VALOR PAGO EM 2022
12	FUNDO DO INDICE IBOVESPA - BOVA11 - CNPJ 10.406.511/0001-61. FORAM VENDIDAS A QUANTIDADE TOTAL DE ACOES DE 380 A UM PRECO MEDIO DE R$113,30, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	43.093,40	43.093,40	0,00
12	FINANCIAMENTO REALIZADO PARA A AQUISICAO DE MOVEIS PLANEJADOS COM A EMPRESA STUDIO VERSATILE COMERCIO DE MOVEIS PLANEJADOS LTDA CNPJ 20.019.649/0001-61 E A INSTITUICAO FINANCEIRA AYMORE CREDITO, FINANCIAMENTO E INVESTIMENTO S.A. CNPJ 07.707.650/0001-10. O VALOR TOTAL FOI DE R$26.000,00 CONTRATADO EM MARCO DE 2021, PARCELADO EM 10 VEZES. O VALOR FOI QUITADO NO ANO DE 2022.	5.200,00	0,00	5.200,00
11	EMPRESTIMO REALIZADO NO MÊS DE FEVEREIRO DE 2022 NO VALOR TOTAL DE R$18.030,09 COM A APROVAÇÃO DO BANCO DO BRASIL. O JUROS PAGOS FOI DE R$1.114,08.	0,00	0,00	19.144,17
TOTAL		48.293,40	43.093,40	24.344,17

DOAÇÕES A PARTIDOS POLÍTICOS E CANDIDATOS A CARGOS ELETIVOS

Sem Informações

PROTEGIDA POR SIGILO FISCAL

DEMONSTRATIVO DE ATIVIDADE RURAL - BRASIL

DADOS E IDENTIFICAÇÃO DO IMÓVEL EXPLORADO - BRASIL

Sem Informações

RECEITAS E DESPESAS - BRASIL

Sem Informações

APURAÇÃO DO RESULTADO - BRASIL

Sem Informações

MOVIMENTAÇÃO DO REBANHO - BRASIL

Sem Informações

BENS DA ATIVIDADE RURAL - BRASIL

Sem Informações

DÍVIDAS VINCULADAS À ATIVIDADE RURAL - BRASIL

Sem Informações

PROTEGIDA POR SIGILO FISCAL

DEMONSTRATIVO DE ATIVIDADE RURAL - EXTERIOR

DADOS E IDENTIFICAÇÃO DO IMÓVEL EXPLORADO - EXTERIOR

Sem Informações

RECEITAS E DESPESAS - EXTERIOR

Sem Informações

APURAÇÃO DO RESULTADO - EXTERIOR

Sem Informações

MOVIMENTAÇÃO DO REBANHO - EXTERIOR

Sem Informações

BENS DA ATIVIDADE RURAL - EXTERIOR

Sem Informações

DÍVIDAS VINCULADAS À ATIVIDADE RURAL - EXTERIOR

Sem Informações

DEMONSTRATIVO DA APURAÇÃO DOS GANHOS DE CAPITAL

Sem Informações

PROTEGIDA POR SIGILO FISCAL

RENDA VARIÁVEL - OPERAÇÕES COMUNS/DAYTRADE - TITULAR

GANHOS LÍQUIDOS OU PERDAS - JAN

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	157,96	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	157,96	0,00
Resultado negativo até o mês anterior	7.196,56	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	7.038,60	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - FEV

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	7.038,60	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	7.038,60	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - MAR

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	686,87	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	686,87	0,00
Resultado negativo até o mês anterior	7.038,60	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	6.351,73	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - ABR

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	6.351,73	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	6.351,73	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - MAI

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	6.351,73	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	6.351,73	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - JUN

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	6.351,73	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	6.351,73	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - JUL

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	6.351,73	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	6.351,73	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - AGO

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	44,21	-0,29
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	44,21	-0,29
Resultado negativo até o mês anterior	6.351,73	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	6.307,52	0,29
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - SET

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	784,65	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	784,65	0,00
Resultado negativo até o mês anterior	6.307,52	0,29
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	5.522,87	0,29
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - OUT

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	5.522,87	0,29
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	5.522,87	0,29
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - NOV

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	5.522,87	0,29
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	5.522,87	0,29
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - DEZ

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	1.109,64	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	1.109,64	0,00
Resultado negativo até o mês anterior	5.522,87	0,29
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	4.413,23	0,29
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

RENDA VARIÁVEL - OPERAÇÕES COMUNS/DAYTRADE - DEPENDENTES

Sem Informações

PROTEGIDA POR SIGILO FISCAL

FUNDOS DE INVESTIMENTO IMOBILIÁRIO OU NAS CADEIAS PRODUTIVAS AGROINDUSTRIAIS - TITULAR

GANHOS LÍQUIDOS OU PERDAS

(Valores em Reais)

MÊS	Janeiro	Fevereiro	Março	Abril	Maio	Junho
RESULTADO LÍQUIDO DO MÊS	0,00	0,00	0,00	0,00	22,76	0,00
RESULTADO NEGATIVO ATÉ O MÊS ANTERIOR	0,00	0,00	0,00	0,00	0,00	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00	0,00	0,00	22,76	0,00
PREJUÍZO A COMPENSAR	0,00	0,00	0,00	0,00	0,00	0,00
ALÍQUOTA DO IMPOSTO	0,00	0,00	0,00	0,00	20,00	0,00
IMPOSTO DEVIDO	0,00	0,00	0,00	0,00	4,55	0,00
IMPOSTO RETIDO MESES ANTERIORES	0,00	0,00	0,00	0,00	0,00	0,00
IMPOSTO RETIDO NO MÊS	0,00	0,00	0,00	0,00	0,00	0,00
IMPOSTO A COMPENSAR	0,00	0,00	0,00	0,00	0,00	0,00
IMPOSTO A PAGAR	0,00	0,00	0,00	0,00	4,55	0,00
IMPOSTO PAGO	0,00	0,00	0,00	0,00	0,00	0,00

MÊS	Julho	Agosto	Setembro	Outubro	Novembro	Dezembro
RESULTADO LÍQUIDO DO MÊS	0,02	0,00	0,00	0,00	0,00	0,00
RESULTADO NEGATIVO ATÉ O MÊS ANTERIOR	0,00	0,00	0,00	0,00	0,00	0,00
BASE DE CÁLCULO DO IMPOSTO	0,02	0,00	0,00	0,00	0,00	0,00
PREJUÍZO A COMPENSAR	0,00	0,00	0,00	0,00	0,00	0,00
ALÍQUOTA DO IMPOSTO	20,00	0,00	0,00	0,00	0,00	0,00
IMPOSTO DEVIDO	0,00	0,00	0,00	0,00	0,00	0,00
IMPOSTO RETIDO MESES ANTERIORES	0,00	0,00	0,00	0,00	0,00	0,00
IMPOSTO RETIDO NO MÊS	0,00	0,00	0,00	0,00	0,00	0,00
IMPOSTO A COMPENSAR	0,00	0,00	0,00	0,00	0,00	0,00
IMPOSTO A PAGAR	0,00	0,00	0,00	0,00	0,00	0,00
IMPOSTO PAGO	0,00	0,00	0,00	0,00	0,00	0,00

FUNDOS DE INVESTIMENTO IMOBILIÁRIO OU NAS CADEIAS PRODUTIVAS AGROINDUSTRIAIS - DEPENDENTES

Sem Informações

DOAÇÕES DIRETAMENTE NA DECLARAÇÃO - ECA

Sem Informações

PROTEGIDA POR SIGILO FISCAL

DOAÇÕES DIRETAMENTE NA DECLARAÇÃO - IDOSO

Sem Informações

RESUMO — TRIBUTAÇÃO UTILIZANDO AS DEDUÇÕES LEGAIS

RENDIMENTOS TRIBUTÁVEIS

Recebidos de Pessoa Jurídica pelo titular	181.403,88
Recebidos de Pessoa Jurídica pelos dependentes	0,00
Recebidos de Pessoa Física/Exterior pelo titular	0,00
Recebidos de Pessoa Física/Exterior pelos dependentes	0,00
Recebidos acumuladamente pelo titular	0,00
Recebidos acumuladamente pelos dependentes	0,00
Resultado tributável da Atividade Rural	0,00
TOTAL	181.403,88

DEDUÇÕES

Contribuições às previdências oficial e complementar fechada de que trata o § 15 do art. 40 da CF/1988 (até o limite do patrocinador)	9.940,56
Contribuição à previdência oficial (Rendimentos recebidos acumuladamente)	0,00
Contribuição à prev. complementar, inclusive o valor para as fechadas de que trata o § 15 do art. 40 da CF/1988 que exceder o limite do patrocinador	6.117,74
Dependentes	4.550,16
Despesas com instrução	0,00
Despesas médicas	2.599,02
Pensão alimentícia judicial	0,00
Pensão alimentícia por escritura pública	0,00
Pensão alimentícia judicial (Rendimentos recebidos acumuladamente)	0,00
Livro caixa	0,00
TOTAL	23.207,48

IMPOSTO DEVIDO

Base de cálculo do imposto	158.196,40
Imposto devido	33.071,69
Dedução de incentivo	0,00
Imposto devido I	33.071,69
Imposto devido RRA	0,00
Aliquota efetiva (%)	18,23
Total do imposto devido	33.071,69

IMPOSTO PAGO

Imposto retido na fonte do titular	32.928,38
Imp. retido na fonte dos dependentes	0,00
Carnê-Leão do titular	0,00
Carnê-Leão dos dependentes	0,00
Imposto complementar	0,00
Imposto pago no exterior	0,00
Imposto retido na fonte (Lei nº 11.033/2004)	0,00
Imposto retido RRA	0,00
Total do imposto pago	32.928,38

IMPOSTO A RESTITUIR	0,00
SALDO DE IMPOSTO A PAGAR	143,31

PARCELAMENTO

Valor da quota	143,31
Número de Quotas	1

INFORMAÇÕES BANCÁRIAS

Débito automático: NÃO

Banco	
Agência (sem DV)	
Conta para débito	

PROTEGIDA POR SIGILO FISCAL

EVOLUÇÃO PATRIMONIAL

Bens e direitos em 31/12/2021	340.366,60
Bens e direitos em 31/12/2022	404.596,74
Dívidas e ônus reais em 31/12/2021	48.293,40
Dívidas e ônus reais em 31/12/2022	43.093,40

OUTRAS INFORMAÇÕES

Rendimentos isentos e não tributáveis	6.594,14
Rendimentos sujeitos à tributação exclusiva/definitiva	29.830,17
Rendimentos tributáveis - imposto com exigibilidade suspensa	0,00
Depósitos judiciais do imposto	0,00
Imposto pago sobre Ganhos de Capital	0,00
Imposto pago Ganhos de Capital Moeda Estrangeira - Bens, direitos e Aplicações Financeiras	0,00
Total do imposto retido na fonte (Lei nº11.033/2004), conforme dados informados pelo contribuinte	0,00
Imposto pago sobre Renda Variável	0,00
Doações a Partidos Políticos e Candidatos a Cargos Eletivos	0,00
Imposto a pagar sobre o Ganho de Capital - Moeda Estrangeira em Espécie	0,00
Imposto diferido dos Ganhos de Capital	0,00
Imposto devido sobre Ganhos de Capital	0,00
Imposto devido sobre ganhos líquidos em Renda Variável	4,55
Imposto devido sobre Ganhos de Capital Moeda Estrangeira - Bens, direitos e aplic. financeiras	0,00

PROTEGIDA POR SIGILO FISCAL

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2024** **CALENDAR YEAR 2023**

TAXPAYER IDENTIFICATION

Name:	JULIO CONFORTO	CPF:	079.523.439-20
Date of Birth:	07/26/1991	Voter ID:	096295810639
Do you have a spouse or partner? Yes		CPF of the Spouse or partner:	065.335.259-05

Were you a resident abroad and became a resident in Brazil in 2023? No

Were there any changes to the registration details? No

Is one of the declarants a person with a serious illness or a physical or mental disability? No

Address:	RUA CORONEL JOAQUIM IGNACIO TABORDA RIBAS	Number:	727
Unit:	APT. 1003	Neighborhood/District:	BIGORRILHO
City:	CURITIBA	State:	PR
ZIP Code:	80730-330	Area Code/Telephone:	(41) 99851-7658
E-mail:	CONFORTO.JULIO@GMAIL.COM	Area Code/Mobile:	(41) 99851-7658

Occupation Type: 01 - EMPLOYEE OF A PRIVATE SECTOR COMPANY, EXCEPT FINANCIAL INSTITUTIONS

Main Occupation: 214 - ENGINEER, ARCHITECT, AND RELATED PROFESSIONS

Type of Declaration: Original Annual Adjustment Declaration

Receipt Number of the last declaration filed in the 2023 tax year: 16.68.36.17.43-00

DEPENDENTS

CODE	NAME	DATE OF BIRTH	CPF
31	JOAO PEDRO CONFORTO	06/25/1962	450.184.999-15
Email :		Mobile :	
Does the dependent live with the taxpayer? No			
31	FATIMA CARRARO CONFORTO	11/07/1964	531.198.439-20
Email :		Mobile :	
Does the dependent live with the taxpayer? No			

TOTAL DEDUCTION WITH DEPENDENTS 4.550,16

ALIMONY RECIPIENTS

No Information

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY THE TAXPAYER

(Values in Reais)

NAME OF THE PAYING SOURCE	INCOME RECEIVED FROM LEGAL ENTITY	OFFICIAL SOCIAL SECURITY CONTRIBUTION	WITHHELD TAX	13th SALARY	INCOME TAX WITHHELD ON 13th SALARY
SIEMENS HEALTHCARE DIAGNOSTICOS LTDA CNPJ/CPF: 01.449.930/0001-90	182.295,33	10.524,48	32.149,73	10.176,36	2.639,37
TOTAL	182.295,33	10.524,48	32.149,73	10.176,36	2.639,37

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY DEPENDENTS

No Information

TAXABLE INCOME RECEIVED FROM INDIVIDUALS AND ABROAD BY THE TAXPAYER

No Information

TAXABLE INCOME RECEIVED FROM INDIVIDUALS AND ABROAD BY DEPENDENTS

No Information

EXEMPT AND NON-TAXABLE INCOME

(Values in Reais)

04. Compensation for termination of employment contract, including under the PDV (Voluntary Dismissal Program), and for work-related accidents; and FGTS (Length-of-Service Guarantee Fund) 33.886,62

Beneficiary	CPF	CPF/CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	00.360.305/0001-04	CAIXA ECONÔMICA FEDERAL	33.886,62

09. Profits and received dividends 986,50

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	33.958.695/0001-78	UNIPAR CARBOCLORO S.A.	382,79
Taxpayer	079.523.439-20	12.648.266/0001-24	AMBIPAR PARTICIPACOES E EMPREENDIMENTOS SA	67,06
Taxpayer	079.523.439-20	08.312.229/0001-73	EZTEC EMPREENDIMENTOS E PARTICIPACOES S/A	95,46
Taxpayer	079.523.439-20	21.314.559/0001-66	MOVIDA PARTICIPACOES S.A.	24,15
Taxpayer	079.523.439-20	84.693.183/0001-68	SCHULZ S/A	122,35
Taxpayer	079.523.439-20	03.342.704/0001-30	PETRORECONCAVO	222,06
Taxpayer	079.523.439-20	37.602.372/0001-06	PETRORIO	72,63

99. Others 183,61

Beneficiary	CPF	CPF/CNPJ of the Paying Source	Name of the Paying Source	Description	Amount
Taxpayer	079.523.439-20	76.416.890/0001-89	GOVERNO DO PARANA SECRETARIA DE ESTADO DA FAZENDA	NOTA PARANA (Tax refund State program)	183,61

TOTAL 35.056,73

INCOME SUBJECT TO EXCLUSIVE/DEFINITIVE TAXATION

(Values in Reais)

01. 13th salary 10.176,36

06. Income from financial investments 1.380,98

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	60.701.190/0001-04	ITAU UNIBANCO S.A.	0,01
Taxpayer	079.523.439-20	00.000.000/0001-91	BANCO DO BRASIL SA	1,59
Taxpayer	079.523.439-20	09.346.601/0001-25	B3 S.A. - BRAZIL, BOLSA, BALCAO	839,70
Taxpayer	079.523.439-20	30.680.829/0001-43	NU FINANCEIRA S.A.	539,68

10. Interest on Equity 1.524,21

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount

Taxpayer	079.523.439-20	30.306.294/0001-45	BANCO BTG PACTUAL S A	331,48
Taxpayer	079.523.439-20	84.693.183/0001-68	SCHULZ S.A.	392,16
Taxpayer	079.523.439-20	21.314.559/0001-66	MOVIDA PARTICIPACOES S.A.	455,75
Taxpayer	079.523.439-20	23.635.798/0001-43	SCHULZ COMPRESSORES S.A.	344,82

11. Participation in profits or results 17.711,93

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	01.449.930/0001-90	SIEMENS HEALTHCARE DIAGNOSTICOS LTDA	17.711,93

TOTAL 30.793,48

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY THE TAXPAYER (TAX WITH SUSPENDED EXIGIBILITY)

No Information

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY THE DEPENDENTS (TAX WITH SUSPENDED EXIGIBILITY)

No Information

TAXABLE INCOME FROM LEGAL ENTITY RECEIVED CUMULATIVELY BY THE TAXPAYER

No Information

TAXABLE INCOME FROM LEGAL ENTITY RECEIVED CUMULATIVELY BY THE DEPENDENTS

No Information

TAX PAID / WITHHELD

(Values in Reais)

01. Complementary Tax:	0,00
02. Tax paid abroad by the taxpayer and dependents	0,00
Tax due with income abroad	0,00
Tax due without income abroad	0,00
Difference to be considered for tax calculation (legal limit)	0,00
03. Income Tax Withheld at Source (Law 11.033/2004):	0,00
04. Income Tax Withheld at Source for the Taxpayer	32.149,73
05. Income Tax Withheld at Source for the Dependents	0,00
06. Taxpayer's Carnê-Leão	0,00
07. Dependent's Carnê-Leão	0,00

PAYMENTS MADE

(Values in Reais)

CODE	BENEFICIARY NAME	BENEFICIARY CPF/CNPJ	AMOUNT PAID	NON-DEDUCTIBLE PORTION
Taxpayer				
11	MARIA LUIZA KRUEGER ARRUDA	005.837.949-55	540,00	0,00
Description: DENTAL TREATMENT				

PAYMENTS MADE

(Values in Reais)

CODE	BENEFICIARY NAME	BENEFICIARY CPF/CNPJ	AMOUNT PAID	NON-DEDUCTIBLE PORTION
26	CENTRAL NACIONAL UNIMED COOP CENTRAL	02.812.468/0001-06	858,94	0,00
Description:				
36	PREVI-SIEMENS SOCIEDADE DE PREVIDENCIA PRIVADA	60.540.440/0001-63	6.815,40	0,00
Description:	PRIVATE PENSION CONTRIBUTION			

Dependent: FATIMA CARRARO CONFORTO

21	JOSÉ CLEMENTE LINHARES	00.708.923/0001-00	500,00	0,00
Description:	MEDICAL CONSULTATION PAYMENT FOR FATIMA CARRARO CONFORTO			

DONATIONS MADE

No Information

STATEMENTS OF ASSETS AND RIGHTS

(Values in Reais)

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
01	11	TWO-BEDROOM APARTMENT, PURCHASED FROM SCHABATURA FOR R$501.816,11, WITH R$30.000,00 PAID IN CASH, ANOTHER R$78.435,14 PAID WITH FGTS FUNDS, AND THE REMAINING R$393.380,97 FINANCED BY BANCO DO BRASIL (CNPJ 00.000.000/0001-91), PURSUANT TO CONTRACT 916.500.341 SIGNED ON 11/01/2021. IN THE YEAR 2023, 12 FINANCING INSTALLMENTS WERE PAID, TOTALING R$37,163.54, IN ADDITION TO ADVANCE PAYMENTS OF R$50,286.62. TOTAL AMOUNT PAID FOR THE PROPERTY IS R$236,978.46.	149.528,30	236.978,46

105 - BRAZIL

Municipal Registration (IPTU): 11100140144012

Address: CORONEL JOAQUIM IGNACIO TABORDA RIBAS
No.: 727
Unit: APARTMENT 1003
Neighborhood: BIGORRILHO
City: CURITIBA
State: PR ZIP Code: 80730-330
Total Area: 77,2 m²
Acquisition Date: 11/05/2021
Registered at the Notary Office: Yes
Name of the Registry office: 1st REAL ESTATE REGISTRY OFFICE
Registration: 66429/66440

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY EZTEC EMPREENDIMENTOS E PARTICIPACOES SA - EZTC3 - CNPJ 08.312.229/0001-73. A QUANTITY OF 1100 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$28,00, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	22.134,00	30.800,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 67.620.377/0001-14
Traded on the Stock Exchange: Yes Trading Code: EZTC3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY SCHULZ S.A - SHUL4 - CNPJ 84.693.183/0001-68. A QUANTITY OF 2000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$4,74, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	9.480,00	9.480,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 84.693.183/0001-68
Traded on the Stock Exchange: Yes Trading Code: SHUL4

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY PETRO RIO S.A. - PRIO3 - CNPJ 10.629.105/0001-68. A QUANTITY OF 1000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$21,36 ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	21.360,00	21.360,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 10.629.105/0001-68
Traded on the Stock Exchange: Yes Trading Code: PRIO3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY BRASIL RESSEGUROS S.A. - IRBR3 - CNPJ 33.376.989/0001-91. A QUANTITY OF ACOES DE 15000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$3,60, ACQUIRED THROUGH BROKER XP INVESTIMENTOS. A REVERSE STOCK SPLIT OCCURRED IN THE PROPORTION OF 30 TO 1, MEANING TODAY I HOLD 500 SHARES AT AN AVERAGE PRICE OF R$108,00.	53.640,00	54.000,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 33.376.989/0001-91
Traded on the Stock Exchange: Yes Trading Code: IRBR3

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY MOVIDA PARTICIPACOES S.A. - MOVI3 - CNPJ 21.314.559/0001-66. A QUANTITY OF 2000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$14,49, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	25.746,00	28.980,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 21.314.559/0001-66

Traded on the Stock Exchange: Yes Trading Code: MOVI3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY OI S.A. - OIBR3 - CNPJ 76.535.764/0001-43. A QUANTITY OF 1000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$7,14, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	7.140,00	7.140,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 76.535.764/0001-43

Traded on the Stock Exchange: Yes Trading Code: OIBR3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY AMBIPAR - AMBP3 - CNPJ 12.648.266/0001-24. A QUANTITY OF 800 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$26,00, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	15.635,00	20.800,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 12.648.266/0001-24

Traded on the Stock Exchange: Yes Trading Code: AMBP3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY UNIPAR CARBOCLORO S.A - UNIP6 - CNPJ 33.958.695/0001-78. A QUANTITY OF 110 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$90,59, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	9.964,90	9.964,90

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 33.958.695/0001-78

Traded on the Stock Exchange: Yes Trading Code: UNIP6

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY PETRORECONCAVO S.A - RECV3 - CNPJ 03.342.704/0001-30. A QUANTITY OF 600 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$28,95, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	15.300,00	17.370,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 03.342.704/0001-30

Traded on the Stock Exchange: Yes Trading Code: RECV3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY 3R PETROLEUM - RRRP3 - CNPJ 12.091.809/0001-55. A QUANTITY OF 950 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$35,01, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	0,00	33.257,61

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 12.091.809/0001-55

Traded on the Stock Exchange: Yes Trading Code: RRRP3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	01	COMPANY INTER CO INC - INBR32 - CNPJ 42.737.954/0001-21. A QUANTITY OF 1000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$19,94, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	0,00	19.942,93

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 42.737.954/0001-21

Traded on the Stock Exchange: Yes Trading Code: INBR32

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
03	02	COMPANY AGRIMPA ENGENHARIA LTDA HAS SHARE CAPITAL IN THE AMOUNT OF R$10.000,00, DIVIDED 50% FOR PARTNER JULIO CONFORTO AND 50% FOR PARTNER DIESSICA DE AZEVEDO.	0,00	0,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 50.831.350/0001-78

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
06	01	REPORTED BY CNPJ 02.332.886/0001-04	0,00	171,95

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 02.332.886/0001-04

Bank: 102 Branch: 0001 Account: 217928-2

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
06	01	AVAILABLE BALANCE IN BANCO DO BRASIL CHECKING ACCOUNT.	18.849,92	0,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 00.000.000/0001-91

Bank: 001 Branch: 0406 Account: 38646-4

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
06	01	AVAILABLE CHECKING ACCOUNT BALANCE AT BANCO NU PAGAMENTOS S.A.	13.403,34	14.973,10

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 30.680.829/0001-43

Bank: 260 Branch: 0001 Account: 36697235-7

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
08	99	A QUANTITY OF 372.654,59 QBIT CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$0,0028266, TOTALING AN INVESTMENT OF R$1.053,36, ACQUIRED THROUGH BROKER BINANCE.	1.053,36	1.053,36

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
08	99	A QUANTITY OF 1.06808 SOLANA CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$1238,99, TOTALING AN INVESTMENT OF R$1323,35, ACQUIRED THROUGH BROKER BINANCE.	1.323,35	1.323,35

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

STATEMENTS OF ASSETS AND RIGHTS

(Values in Reais)

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023
08	99	A QUANTITY OF 610,37 VECHAIR CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$1,0407, TOTALING AN INVESTMENT OF R$635,22, ACQUIRED THROUGH BROKER BINANCE.	635,22	635,22
105 - BRAZIL				
Asset or right belonging to:		Taxpayer CPF: 079.523.439-20		
08	99	A QUANTITY OF 53,26 POLYGON CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$9,9389, TOTALING AN INVESTMENT OF R$529,35, ACQUIRED THROUGH BROKER BINANCE.	529,35	529,35
105 - BRAZIL				
Asset or right belonging to:		Taxpayer CPF: 079.523.439-20		
TOTAL			365.722,74	508.760,23

ENCUMBRANCES AND REAL LIABILITIES

(Values in Reais)

CODE	DISCLOSURE	STATUS ON 12/31/2022	STATUS ON 12/31/2023	AMOUNT PAID IN 2023
12	IBOVESPA INDEX FUND - BOVA11 - CNPJ 10.406.511/0001-61. A QUANTITY OF 440 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$113,19, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	43.093,40	49.803,60	0,00
12	REAL ESTATE CREDIT ACQUISITION.	396.376,95	350.254,44	87.479,31
TOTAL		439.470,35	400.058,04	87.479,31

DONATIONS TO POLITICAL PARTIES AND CANDIDATES FOR ELECTIVE OFFICES

No Information

STATEMENT OF RURAL ACTIVITY - BRAZIL

IDENTIFICATION DATA OF THE EXPLORED PROPERTY - BRAZIL

No Information

INCOME AND EXPENSES - BRAZIL

No Information

CALCULATION OF THE RESULT - BRAZIL

No Information

LIVESTOCK ACTIVITY - BRAZIL

No Information

ASSETS OF RURAL ACTIVITY - BRAZIL

No Information

DEBTS RELATED TO RURAL ACTIVITY - BRAZIL

No Information

STATEMENT OF RURAL ACTIVITY - ABROAD

IDENTIFICATION DATA OF THE EXPLORED PROPERTY - ABROAD

No Information

INCOME AND EXPENSES - ABROAD

No Information

CALCULATION OF THE RESULT - ABROAD

No Information

LIVESTOCK ACTIVITY - ABROAD

No Information

ASSETS OF RURAL ACTIVITY - ABROAD

No Information

DEBTS RELATED TO RURAL ACTIVITY - ABROAD

No Information

STATEMENT OF CAPITAL GAINS CALCULATION

No Information

VARIABLE INCOME - COMMON OPERATIONS/DAYTRADE - TAXPAYER

NET GAINS OR LOSSES - JAN

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	-6.423,58	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	-6.423,58	0,00
Negative result until the previous month	4.413,23	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	10.836,81	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - FEB

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	10.836,81	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	10.836,81	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - MAR

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	10.836,81	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	10.836,81	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - APR

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	10.836,81	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	10.836,81	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - MAY

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	10.836,81	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	10.836,81	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - JUN

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	10.836,81	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	10.836,81	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - JUL

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	10.836,81	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	10.836,81	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2024** **CALENDAR YEAR 2023**

NET GAINS OR LOSSES - AUG (Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	872,71	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	872,71	0,00
Negative result until the previous month	10.836,81	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,10	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - SEP

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,10	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,10	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2024** **CALENDAR YEAR 2023**

NET GAINS OR LOSSES - OCT

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,10	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,10	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - NOV

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,10	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,10	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES - DEC

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,10	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,10	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day-trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

VARIABLE INCOME - COMMON OPERATIONS/DAYTRADE - DEPENDENTS

No Information

REAL ESTATE INVESTMENT FUNDS OR IN AGRO-INDUSTRIAL PRODUCTION CHAINS - TAXPAYER

No Information

REAL ESTATE INVESTMENT FUNDS OR IN AGRO-INDUSTRIAL PRODUCTION CHAINS - DEPENDENTS

No Information

DONATIONS DIRECTLY IN THE DECLARATION – ECA (STATUTE OF THE CHILD AND ADOLESCENT)

No Information

DONATIONS DIRECTLY IN THE DECLARATION - ELDERLY

No Information

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2024** **CALENDAR YEAR 2023**

SUMMARY — TAXATION USING THE LEGAL DEDUCTION

TAXABLE INCOME

Received from Legal Entity by the taxpayer	182.295,33
Received from Legal Entity by dependents	0,00
Received from Individual/Abroad by the taxpayer	0,00
Received from Individual/Abroad by Dependents	0,00
Received Cumulatively by the taxpayer	0,00
Received Cumulatively by dependents	0,00
Taxable Income from Rural Activity	0,00
TOTAL	182.295,33

DEDUCTIONS

Contributions to the official and closed complementary pension systems referred to in § 15 of Article 40 of the CF (Federal Constitution)/1988 (up to the sponsor limit)	10.524,48
Contribution to the official pension system (Income received cumulatively)	0,00
Contribution to the complementary pension system, including the amount for the closed systems referred to in Article 40, § 15, of the CF (Federal Constitution)/1988, which exceeds the sponsor's limit	6.815,40
Dependents	4.550,16
Education Expenses	0,00
Medical Expenses	1.898,94
Judicial Alimony	0,00
Alimony by Public Deed	0,00
Judicial Alimony (Income received cumulatively)	0,00
Cash Book	0,00
TOTAL	23.788,98

TAX DUE

Taxable Base	158.506,35
Tax Due	33.032,11
Incentive Deduction	0,00
Tax Due I	33.032,11
Tax Due RRA (on received accumulated income)	0,00
Effective Tax Rate (%)	18,12
Total Tax Due	33.032,11

TAX PAID

Tax Withheld at Source by the Taxpayer	32.149,73
Tax Withheld at Source by Dependents	0,00
Taxpayer's Carnê-Leão	0,00
Dependents' Carnê-Leão	0,00
Complementary Tax	0,00
Tax Paid Abroad	0,00
Tax Withheld at Source (Law No. 11.033/2004)	0,00
Tax Withheld RRA	0,00
Total Tax Paid	32.149,73

TAX TO BE REFUNDED	0,00
BALANCE OF TAX PAYABLE	882,38

INSTALLMENT PLAN

Installment Amount	882,38
Number of Installments	1

BANKING INFORMATION

Automatic Debit: NO

Bank	
Branch (without verification digit)	
Account for debit	

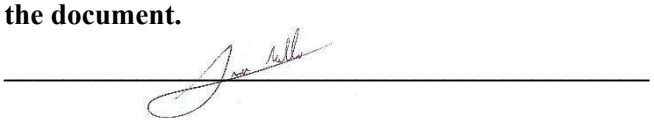
ASSET EVOLUTION

Assets and Rights on 12/31/2022	365.722,74
Assets and Rights on 12/31/2023	508.760,23
Encumbrances and Real Liabilities on 12/31/2022	439.470,35
Encumbrances and Real Liabilities on 12/31/2023	400.058,04

OTHER INFORMATION

Exempt and non-taxable income	35.056,73
Income subject to exclusive/definitive taxation	30.793,48
Taxable income - tax with suspended liability	0,00
Judicial Deposits of Tax	0,00
Tax Paid on Capital Gains	0,00
Tax Paid on Capital Gains Foreign Currency - Assets, Rights, and Financial Investments	0,00
Total tax withheld at source (Law No. 11.033/2004), as per the data provided by the taxpayer	0,00
Tax Paid on Variable Income	0,00
Donations to Political Parties and Candidates for Elective Office	0,00
Tax Payable on Capital Gain - Foreign Currency in Cash	0,00
Deferred Tax on Capital Gains	0,00
Tax Due on Capital Gains	0,00
Tax Due on Net Income from Variable Income	0,00
Tax Due on Capital Gains in Foreign Currency - Assets, Rights, and Financial Investments	0,00

I, André Vinícius Inacio Penna Mello, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: August 4, 2026

NOME: JULIO CONFORTO
CPF: 079.523.439-20 **IMPOSTO SOBRE A RENDA - PESSOA FÍSICA**
DECLARAÇÃO DE AJUSTE ANUAL **EXERCÍCIO 2024** **ANO-CALENDÁRIO 2023**

IDENTIFICAÇÃO DO CONTRIBUINTE

Nome:	JULIO CONFORTO	CPF:	079.523.439-20
Data de Nascimento:	26/07/1991	Título Eleitoral:	096295810639
Possui cônjuge ou companheiro(a)?	Sim	CPF do cônjuge ou companheiro(a):	065.335.259-05

Era residente no exterior e passou a ser residente no Brasil em 2023? Não

Houve alteração de dados cadastrais? Não

Um dos declarantes é pessoa com doença grave ou portadora de deficiência física ou mental? Não

Endereço:	RUA CORONEL JOAQUIM IGNACIO TABORDA RIBAS	Número:	727
Complemento:	APTO 1003	Bairro/Distrito:	BIGORRILHO
Município:	CURITIBA	UF:	PR
CEP:	80730-330	DDD/Telefone:	(41) 99851-7658
E-mail:	CONFORTO.JULIO@GMAIL.COM	DDD/Celular:	(41) 99851-7658

Natureza da Ocupação: 01 - EMPREGADO DE EMPRESA DO SETOR PRIVADO, EXCETO DE INSTITUIÇÕES FINANCEIRAS

Ocupação Principal: 214 - ENGENHEIRO, ARQUITETO E AFINS

Tipo de declaração: Declaração de Ajuste Anual Original

Nº do recibo da última declaração entregue do exercício de 2023: 16.68.36.17.43-00

PROTEGIDA POR SIGILO FISCAL

DEPENDENTES

CÓDIGO	NOME	DATA DE NASCIMENTO	CPF
31	JOAO PEDRO CONFORTO	25/06/1962	450.184.999-15
Email :		Celular :	
Dependente mora com o titular da declaração? Não			
31	FATIMA CARRARO CONFORTO	07/11/1964	531.198.439-20
Email :		Celular :	
Dependente mora com o titular da declaração? Não			

TOTAL DE DEDUÇÃO COM DEPENDENTES 4.550,16

ALIMENTANDOS

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELO TITULAR

(Valores em Reais)

NOME DA FONTE PAGADORA	REND. RECEBIDOS DE PES. JURÍDICA	CONTR. PREVID. OFICIAL	IMPOSTO RETIDO NA FONTE	13º SALÁRIO	IRRF SOBRE 13º SALÁRIO
SIEMENS HEALTHCARE DIAGNOSTICOS LTDA CNPJ/CPF: 01.449.930/0001-90	182.295,33	10.524,48	32.149,73	10.176,36	2.639,37
TOTAL	182.295,33	10.524,48	32.149,73	10.176,36	2.639,37

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELOS DEPENDENTES

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA FÍSICA E DO EXTERIOR PELO TITULAR

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA FÍSICA E DO EXTERIOR PELOS DEPENDENTES

Sem Informações

RENDIMENTOS ISENTOS E NÃO TRIBUTÁVEIS

(Valores em Reais)

04. Indenizações por rescisão de contrato de trabalho, inclusive a título de PDV, e por acidente de trabalho; e FGTS — 33.886,62

Beneficiário	CPF	CPF/CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	00.360.305/0001-04	CAIXA ECONÔMICA FEDERAL	33.886,62

09. Lucros e dividendos recebidos — 986,50

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	33.958.695/0001-78	UNIPAR CARBOCLORO S.A.	382,79
Titular	079.523.439-20	12.648.266/0001-24	AMBIPAR PARTICIPACOES E EMPREENDIMENTOS SA	67,06
Titular	079.523.439-20	08.312.229/0001-73	EZTEC EMPREENDIMENTOS E PARTICIPACOES S/A	95,46
Titular	079.523.439-20	21.314.559/0001-66	MOVIDA PARTICIPACOES S.A.	24,15
Titular	079.523.439-20	84.693.183/0001-68	SCHULZ S/A	122,35
Titular	079.523.439-20	03.342.704/0001-30	PETRORECONCAVO	222,06
Titular	079.523.439-20	37.602.372/0001-06	PETRORIO	72,63

99. Outros — 183,61

Beneficiário	CPF	CPF/CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Descrição	Valor
Titular	079.523.439-20	76.416.890/0001-89	GOVERNO DO PARANA SECRETARIA DE ESTADO DA FAZENDA	NOTA PARANA	183,61

TOTAL — 35.056,73

RENDIMENTOS SUJEITOS À TRIBUTAÇÃO EXCLUSIVA / DEFINITIVA

(Valores em Reais)

01. 13º salário — 10.176,36

06. Rendimentos de aplicações financeiras — 1.380,98

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	60.701.190/0001-04	ITAU UNIBANCO S.A.	0,01
Titular	079.523.439-20	00.000.000/0001-91	BANCO DO BRASIL SA	1,59
Titular	079.523.439-20	09.346.601/0001-25	B3 S.A. - BRASIL, BOLSA, BALCAO	839,70
Titular	079.523.439-20	30.680.829/0001-43	NU FINANCEIRA S.A.	539,68

10. Juros sobre capital próprio — 1.524,21

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor

PROTEGIDA POR SIGILO FISCAL

Titular	079.523.439-20	30.306.294/0001-45	BANCO BTG PACTUAL S A	331,48
Titular	079.523.439-20	84.693.183/0001-68	SCHULZ S.A.	392,16
Titular	079.523.439-20	21.314.559/0001-66	MOVIDA PARTICIPACOES S.A.	455,75
Titular	079.523.439-20	23.635.798/0001-43	SCHULZ COMPRESSORES S.A.	344,82

11. Participação nos lucros ou resultados 17.711,93

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	01.449.930/0001-90	SIEMENS HEALTHCARE DIAGNOSTICOS LTDA	17.711,93

TOTAL 30.793,48

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELO TITULAR (IMPOSTO COM EXIGIBILIDADE SUSPENSA)

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELOS DEPENDENTES (IMPOSTO COM EXIGIBILIDADE SUSPENSA)

Sem Informações

RENDIMENTOS TRIBUTÁVEIS DE PESSOA JURÍDICA RECEBIDOS ACUMULADAMENTE PELO TITULAR

Sem Informações

RENDIMENTOS TRIBUTÁVEIS DE PESSOA JURÍDICA RECEBIDOS ACUMULADAMENTE PELOS DEPENDENTES

Sem Informações

IMPOSTO PAGO / RETIDO (Valores em Reais)

01. Imposto complementar	0,00
02. Imposto pago no exterior pelo titular e pelos dependentes	0,00
Imposto devido com os rendimentos no exterior	0,00
Imposto devido sem os rendimentos no exterior	0,00
Diferença a ser considerada para cálculo do imposto (limite legal)	0,00
03. Imposto sobre a renda na fonte (Lei 11.033/2004)	0,00
04. Imposto retido na fonte do titular	32.149,73
05. Imposto retido na fonte dos dependentes	0,00
06. Carnê-Leão do titular	0,00
07. Carnê-Leão dos dependentes	0,00

PAGAMENTOS EFETUADOS (Valores em Reais)

CÓD.	NOME DO BENEFICIÁRIO	CPF/CNPJ DO BENEFICIÁRIO	VALOR PAGO	PARC. NÃO DEDUTÍVEL
Titular				
11	MARIA LUIZA KRUEGER ARRUDA	005.837.949-55	540,00	0,00
Descrição: ODONTOLOGO				

PROTEGIDA POR SIGILO FISCAL

PAGAMENTOS EFETUADOS

(Valores em Reais)

CÓD.	NOME DO BENEFICIÁRIO	CPF/CNPJ DO BENEFICIÁRIO	VALOR PAGO	PARC. NÃO DEDUTÍVEL
26	CENTRAL NACIONAL UNIMED COOP CENTRAL	02.812.468/0001-06	858,94	0,00
Descrição:				
36	PREVI-SIEMENS SOCIEDADE DE PREVIDENCIA PRIVADA	60.540.440/0001-63	6.815,40	0,00
Descrição:	PREVIDENCIA COMPLEMENTAR			
Dependente:	FATIMA CARRARO CONFORTO			
21	JOSÉ CLEMENTE LINHARES	00.708.923/0001-00	500,00	0,00
Descrição:	PAGAMENTO DE CONSULTA MÉDICA PARA A FATIMA CARRARO CONFORTO			

DOAÇÕES EFETUADAS

Sem Informações

DECLARAÇÃO DE BENS E DIREITOS

(Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2022	SITUAÇÃO EM 31/12/2023
01	11	APARTAMENTO DE DOIS DORMITORIOS, ADQUIRIDO DA SCHABATURA POR R$501.816,11, SENDO R$30.000,00 PAGOS A VISTA, OUTROS R$78.435,14 PAGOS COM RECURSOS DO FGTS E O R$393.380,97 RESTANTES FINANCIADOS PELO BANCO DO BRASIL (CNPJ 00.000.000/0001-91), CONFORME CONTRATO 916.500.341 ASSINADO EM 01/11/2021. NO ANO DE 2023 FORAM PAGOS 12 PARCELAS DO FINANCIAMENTO, TOTALIZANDO O VALOR DE R$37.163,54, ALÉM DOS VALORES PAGOS ADIANTADOS DE R$50.286,62. VALOR TOTAL PAGO NO IMOVEL E DE R$236.978,46.	149.528,30	236.978,46

105 - BRASIL

Inscrição Municipal (IPTU): 11100140144012

Logradouro: CORONEL JOAQUIM IGNACIO TABORDA RIBAS
Nº: 727
Comp.: APARTAMENTO 1003
Bairro: BIGORRILHO
Município: CURITIBA
UF: PR CEP: 80730-330
Área Total: 77,2 m²
Data de Aquisição: 05/11/2021
Registrado no Cartório: Sim
Nome Cartório: 1O REGISTRO DE IMOVEIS
Matrícula: 66429/66440

PROTEGIDA POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS (Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2022	SITUAÇÃO EM 31/12/2023
03	01	EMPRESA EZTEC EMPREENDIMENTOS E PARTICIPACOES SA - EZTC3 - CNPJ 08.312.229/0001-73. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1100 A UM PRECO MEDIO DE R$28,00, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	22.134,00	30.800,00

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 67.620.377/0001-14
Negociados em Bolsa: Sim Código de Negociação: EZTC3

03	01	EMPRESA SCHULZ S.A - SHUL4 - CNPJ 84.693.183/0001-68. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 2000 A UM PRECO MEDIO DE R$4,74, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	9.480,00	9.480,00

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 84.693.183/0001-68
Negociados em Bolsa: Sim Código de Negociação: SHUL4

03	01	EMPRESA PETRO RIO S.A. - PRIO3 - CNPJ 10.629.105/0001-68. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1000 A UM PRECO MEDIO DE R$21,36 ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	21.360,00	21.360,00

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 10.629.105/0001-68
Negociados em Bolsa: Sim Código de Negociação: PRIO3

03	01	EMPRESA BRASIL RESSEGUROS S.A. - IRBR3 - CNPJ 33.376.989/0001-91. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 15000 A UM PRECO MEDIO DE R$3,60, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. HOUVE UM AGRUPAMENTO NA PROPORÇÃO DE 30 PARA 1, OU SEJA, HOJE EU TENHO 500 AÇÕES A UM PREÇO MÉDIO DE R$108,00.	53.640,00	54.000,00

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 33.376.989/0001-91
Negociados em Bolsa: Sim Código de Negociação: IRBR3

PROTEGIDO POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS (Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2022	SITUAÇÃO EM 31/12/2023
03	01	EMPRESA MOVIDA PARTICIPACOES S.A. - MOVI3 - CNPJ 21.314.559/0001-66. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 2000 A UM PRECO MEDIO DE R$14,49, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	25.746,00	28.980,00

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 21.314.559/0001-66
Negociados em Bolsa: Sim Código de Negociação: MOVI3

03	01	EMPRESA OI S.A. - OIBR3 - CNPJ 76.535.764/0001-43. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1000 A UM PRECO MEDIO DE R$7,14, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	7.140,00	7.140,00

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 76.535.764/0001-43
Negociados em Bolsa: Sim Código de Negociação: OIBR3

03	01	EMPRESA AMBIPAR - AMBP3 - CNPJ 12.648.266/0001-24. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 800 A UM PRECO MEDIO DE R$26,00, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	15.635,00	20.800,00

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 12.648.266/0001-24
Negociados em Bolsa: Sim Código de Negociação: AMBP3

03	01	EMPRESA UNIPAR CARBOCLORO S.A - UNIP6 - CNPJ 33.958.695/0001-78. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 110 A UM PRECO MEDIO DE R$90,59, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	9.964,90	9.964,90

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 33.958.695/0001-78
Negociados em Bolsa: Sim Código de Negociação: UNIP6

PROTEGIDA POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS (Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2022	SITUAÇÃO EM 31/12/2023
03	01	EMPRESA PETRORECONCAVO S.A - RECV3 - CNPJ 03.342.704/0001-30. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 600 A UM PRECO MEDIO DE R$28,95, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	15.300,00	17.370,00

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 03.342.704/0001-30
Negociados em Bolsa: Sim Código de Negociação: RECV3

03	01	EMPRESA 3R PETROLEUM - RRRP3 - CNPJ 12.091.809/0001-55. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 950 A UM PRECO MEDIO DE R$35,01, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	0,00	33.257,61

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 12.091.809/0001-55
Negociados em Bolsa: Sim Código de Negociação: RRRP3

03	01	EMPRESA INTER CO INC - INBR32 - CNPJ 42.737.954/0001-21. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1000 A UM PRECO MEDIO DE R$19,94, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	0,00	19.942,93

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 42.737.954/0001-21
Negociados em Bolsa: Sim Código de Negociação: INBR32

03	02	A EMPRESA AGRIMPA ENGENHARIA LTDA POSSUI CAPITAL SOCIAL NO VALOR DE R$10.000,00, DIVIDIDO EM 50% PARA SÓCIO JULIO CONFORTO E 50% PARA A SÓCIA DIESSICA DE AZEVEDO.	0,00	0,00

105 - BRASIL

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 50.831.350/0001-78

PROTEGIDA POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS (Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2022	SITUAÇÃO EM 31/12/2023
06	01	INFORMADO POR CNPJ 02.332.886/0001-04 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 02.332.886/0001-04 Banco: 102 Agência: 0001 Conta: 217928-2	0,00	171,95
06	01	DINHEIRO DISPONIVEL NA CONTA CORRENTE DO BANCO DO BRASIL. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 00.000.000/0001-91 Banco: 001 Agência: 0406 Conta: 38646-4	18.849,92	0,00
06	01	SALDO EM CONTA CORRENTE DISPONIVEL NO BANCO NU PAGAMENTOS S.A. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 30.680.829/0001-43 Banco: 260 Agência: 0001 Conta: 36697235-7	13.403,34	14.973,10
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS QBIT 372.654,59 A UM PRECO MEDIO DE R$0,0028266, TOTALIZANDO O INVESTIMENTO DE R$1.053,36, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20	1.053,36	1.053,36
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS SOLANA 1.06808 A UM PRECO MEDIO DE R$1238,99, TOTALIZANDO O INVESTIMENTO DE R$1323,35, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20	1.323,35	1.323,35

PROTEGIDA POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS

(Valores em Reais)

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2022	SITUAÇÃO EM 31/12/2023
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS VECHAIR 610,37 A UM PRECO MEDIO DE R$1,0407, TOTALIZANDO O INVESTIMENTO DE R$635,22, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20	635,22	635,22
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS POLYGON 53,26 A UM PRECO MEDIO DE R$9,9389, TOTALIZANDO O INVESTIMENTO DE R$529,35, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE. 105 - BRASIL Bem ou direito pertencente ao: Titular CPF: 079.523.439-20	529,35	529,35
TOTAL			365.722,74	508.760,23

DÍVIDAS E ÔNUS REAIS

(Valores em Reais)

CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2022	SITUAÇÃO EM 31/12/2023	VALOR PAGO EM 2023
12	FUNDO DO INDICE IBOVESPA - BOVA11 - CNPJ 10.406.511/0001-61. FORAM VENDIDAS A QUANTIDADE TOTAL DE ACOES DE 440 A UM PRECO MEDIO DE R$113,19, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	43.093,40	49.803,60	0,00
12	CRÉDITO IMOBILIÁRIO AQUISIÇÃO.	396.376,95	350.254,44	87.479,31
TOTAL		439.470,35	400.058,04	87.479,31

DOAÇÕES A PARTIDOS POLÍTICOS E CANDIDATOS A CARGOS ELETIVOS

Sem Informações

PROTEGIDA POR SIGILO FISCAL

DEMONSTRATIVO DE ATIVIDADE RURAL - BRASIL

DADOS E IDENTIFICAÇÃO DO IMÓVEL EXPLORADO - BRASIL

Sem Informações

RECEITAS E DESPESAS - BRASIL

Sem Informações

APURAÇÃO DO RESULTADO - BRASIL

Sem Informações

MOVIMENTAÇÃO DO REBANHO - BRASIL

Sem Informações

BENS DA ATIVIDADE RURAL - BRASIL

Sem Informações

DÍVIDAS VINCULADAS À ATIVIDADE RURAL - BRASIL

Sem Informações

PROTEGIDA POR SIGILO FISCAL

DEMONSTRATIVO DE ATIVIDADE RURAL - EXTERIOR

DADOS E IDENTIFICAÇÃO DO IMÓVEL EXPLORADO - EXTERIOR

Sem Informações

RECEITAS E DESPESAS - EXTERIOR

Sem Informações

APURAÇÃO DO RESULTADO - EXTERIOR

Sem Informações

MOVIMENTAÇÃO DO REBANHO - EXTERIOR

Sem Informações

BENS DA ATIVIDADE RURAL - EXTERIOR

Sem Informações

DÍVIDAS VINCULADAS À ATIVIDADE RURAL - EXTERIOR

Sem Informações

DEMONSTRATIVO DA APURAÇÃO DOS GANHOS DE CAPITAL

Sem Informações

PROTEGIDA POR SIGILO FISCAL

RENDA VARIÁVEL - OPERAÇÕES COMUNS/DAYTRADE - TITULAR

GANHOS LÍQUIDOS OU PERDAS - JAN

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	-6.423,58	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	-6.423,58	0,00
Resultado negativo até o mês anterior	4.413,23	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	10.836,81	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - FEV

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	10.836,81	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	10.836,81	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - MAR

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	10.836,81	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	10.836,81	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - ABR

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	10.836,81	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	10.836,81	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - MAI

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	10.836,81	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	10.836,81	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - JUN

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	10.836,81	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	10.836,81	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - JUL

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	10.836,81	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	10.836,81	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - AGO

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	872,71	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	872,71	0,00
Resultado negativo até o mês anterior	10.836,81	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,10	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - SET

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,10	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,10	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - OUT

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,10	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,10	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - NOV

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,10	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,10	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - DEZ

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,10	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,10	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

RENDA VARIÁVEL - OPERAÇÕES COMUNS/DAYTRADE - DEPENDENTES

Sem Informações

FUNDOS DE INVESTIMENTO IMOBILIÁRIO OU NAS CADEIAS PRODUTIVAS AGROINDUSTRIAIS - TITULAR

Sem Informações

FUNDOS DE INVESTIMENTO IMOBILIÁRIO OU NAS CADEIAS PRODUTIVAS AGROINDUSTRIAIS - DEPENDENTES

Sem Informações

DOAÇÕES DIRETAMENTE NA DECLARAÇÃO - ECA

Sem Informações

DOAÇÕES DIRETAMENTE NA DECLARAÇÃO - IDOSO

Sem Informações

PROTEGIDA POR SIGILO FISCAL

RESUMO — TRIBUTAÇÃO UTILIZANDO AS DEDUÇÕES LEGAIS

RENDIMENTOS TRIBUTÁVEIS

Recebidos de Pessoa Jurídica pelo titular	182.295,33
Recebidos de Pessoa Jurídica pelos dependentes	0,00
Recebidos de Pessoa Física/Exterior pelo titular	0,00
Recebidos de Pessoa Física/Exterior pelos dependentes	0,00
Recebidos acumuladamente pelo titular	0,00
Recebidos acumuladamente pelos dependentes	0,00
Resultado tributável da Atividade Rural	0,00
TOTAL	182.295,33

DEDUÇÕES

Contribuições às previdências oficial e complementar fechada de que trata o § 15 do art. 40 da CF/1988 (até o limite do patrocinador)	10.524,48
Contribuição à previdência oficial (Rendimentos recebidos acumuladamente)	0,00
Contribuição à prev. complementar, inclusive o valor para as fechadas de que trata o § 15 do art. 40 da CF/1988 que exceder o limite do patrocinador	6.815,40
Dependentes	4.550,16
Despesas com instrução	0,00
Despesas médicas	1.898,94
Pensão alimentícia judicial	0,00
Pensão alimentícia por escritura pública	0,00
Pensão alimentícia judicial (Rendimentos recebidos acumuladamente)	0,00
Livro caixa	0,00
TOTAL	23.788,98

IMPOSTO DEVIDO

Base de cálculo do imposto	158.506,35
Imposto devido	33.032,11
Dedução de incentivo	0,00
Imposto devido I	33.032,11
Imposto devido RRA	0,00
Aliquota efetiva (%)	18,12
Total do imposto devido	33.032,11

IMPOSTO PAGO

Imposto retido na fonte do titular	32.149,73
Imp. retido na fonte dos dependentes	0,00
Carnê-Leão do titular	0,00
Carnê-Leão dos dependentes	0,00
Imposto complementar	0,00
Imposto pago no exterior	0,00
Imposto retido na fonte (Lei nº 11.033/2004)	0,00
Imposto retido RRA	0,00
Total do imposto pago	32.149,73

IMPOSTO A RESTITUIR	0,00
SALDO DE IMPOSTO A PAGAR	882,38

PARCELAMENTO

Valor da quota	882,38
Número de Quotas	1

INFORMAÇÕES BANCÁRIAS

Débito automático: NÃO

Banco	
Agência (sem DV)	
Conta para débito	

PROTEGIDA POR SIGILO FISCAL

EVOLUÇÃO PATRIMONIAL

Bens e direitos em 31/12/2022	365.722,74
Bens e direitos em 31/12/2023	508.760,23
Dívidas e ônus reais em 31/12/2022	439.470,35
Dívidas e ônus reais em 31/12/2023	400.058,04

OUTRAS INFORMAÇÕES

Rendimentos isentos e não tributáveis	35.056,73
Rendimentos sujeitos à tributação exclusiva/definitiva	30.793,48
Rendimentos tributáveis - imposto com exigibilidade suspensa	0,00
Depósitos judiciais do imposto	0,00
Imposto pago sobre Ganhos de Capital	0,00
Imposto pago Ganhos de Capital Moeda Estrangeira - Bens, direitos e Aplicações Financeiras	0,00
Total do imposto retido na fonte (Lei nº11.033/2004), conforme dados informados pelo contribuinte	0,00
Imposto pago sobre Renda Variável	0,00
Doações a Partidos Políticos e Candidatos a Cargos Eletivos	0,00
Imposto a pagar sobre o Ganho de Capital - Moeda Estrangeira em Espécie	0,00
Imposto diferido dos Ganhos de Capital	0,00
Imposto devido sobre Ganhos de Capital	0,00
Imposto devido sobre ganhos líquidos em Renda Variável	0,00
Imposto devido sobre Ganhos de Capital Moeda Estrangeira - Bens, direitos e aplic. financeiras	0,00

PROTEGIDA POR SIGILO FISCAL

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2025** **CALENDAR YEAR 2024**

TAXPAYER IDENTIFICATION

Name:	JULIO CONFORTO	CPF:	079.523.439-20
Date of Birth:	07/26/1991		
Do you have a spouse or partner? Yes		CPF of the Spouse or partner:	065.335.259-05

Were you a resident abroad and became a resident in Brazil in 2024? No

Were there any changes to the registration details? No

Is one of the declarants a person with a serious illness or a physical or mental disability? No

Address:	RUA CORONEL JOAQUIM IGNACIO TABORDA RIBAS	Number:	727
Unit:	APT. 1003	Neighborhood/District:	BIGORRILHO
City:	CURITIBA	State:	PR
ZIP Code:	80730-330	Area Code/Telephone:	(41) 99851-7658
E-mail:	CONFORTO.JULIO@GMAIL.COM	Area Code/Mobile:	(41) 99851-7658

Occupation Type: 01 - Employee of a private sector company, except financial institutions

Main Occupation: 214 - Engineer, architect, and related professions

Type of Declaration: Original Annual Adjustment Declaration

Receipt Number of the last declaration filed in the 2024 tax year: 31.25.80.39.24-99

DEPENDENTS

CODE	NAME	DATE OF BIRTH	CPF
31	JOAO PEDRO CONFORTO	06/25/1962	450.184.999-15
Email :		Mobile :	
Does the dependent live with the taxpayer? No			
31	FATIMA CARRARO CONFORTO	11/07/1964	531.198.439-20
Email :		Mobile :	
Does the dependent live with the taxpayer? No			

TOTAL DEDUCTION WITH DEPENDENTS 4.550,16

ALIMONY RECIPIENTS

No Information

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY THE TAXPAYER

(Values in Reais)

NAME OF THE PAYING SOURCE	INCOME RECEIVED FROM LEGAL ENTITY	OFFICIAL SOCIAL SECURITY CONTRIBUTION	WITHHELD TAX	13th SALARY	INCOME TAX WITHHELD ON 13th SALARY
SIEMENS HEALTHCARE DIAGNOSTICOS LTDA CNPJ/CPF: 01.449.930/0001-90	230.378,47	10.906,20	46.502,86	12.071,40	3.342,95
TOTAL	230.378,47	10.906,20	46.502,86	12.071,40	3.342,95

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY DEPENDENTS

No Information

TAXABLE INCOME RECEIVED FROM INDIVIDUALS AND ABROAD BY THE TAXPAYER

No Information

TAXABLE INCOME RECEIVED FROM INDIVIDUALS AND ABROAD BY DEPENDENTS

No Information

EXEMPT AND NON-TAXABLE INCOME

(Values in Reais)

09. Profits and received dividends — 1.180,28

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	33.958.695/0001-78	UNIPAR CARBOCLORO S.A.	711,00
Taxpayer	079.523.439-20	08.312.229/0001-73	EZTEC EMPREENDIMENTOS E PARTICIPACOES S/A	315,87
Taxpayer	079.523.439-20	00.416.968/0001-01	BANCO INTER	153,41

12. Income from savings accounts, mortgage bonds, agribusiness, and real estate letters of credit (LCA and LCI), and certificates of agribusiness and real estate receivables (CRA and CRI) — 179,87

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	00.000.000/0001-91	BANCO DO BRASIL SA	179,87

22. Recovery of Losses in Variable Income (stock exchange, commodities, futures and similar markets, and real estate investment funds) — 921,85

TOTAL — 2.282,00

INCOME SUBJECT TO EXCLUSIVE/DEFINITIVE TAXATION

(Values in Reais)

01. 13th salary — 12.071,40

06. Income from financial investments — 1.131,51

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	00.000.000/0001-91	BANCO DO BRASIL SA	4,29
Taxpayer	079.523.439-20	30.680.829/0001-43	NU FINANCEIRA S.A.	1.127,22

10. Interest on Equity — 851,07

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	84.693.183/0001-68	SCHULZ S.A.	851,07

11. Participation in profits or results — 9.339,35

Beneficiary	CPF	CNPJ of the Paying Source	Name of the Paying Source	Amount
Taxpayer	079.523.439-20	01.449.930/0001-90	SIEMENS HEALTHCARE DIAGNOSTICOS LTDA	9.339,35

TOTAL — 23.393,33

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY THE TAXPAYER (TAX WITH SUSPENDED EXIGIBILITY)

No Information

TAXABLE INCOME RECEIVED FROM LEGAL ENTITY BY THE DEPENDENTS (TAX WITH SUSPENDED EXIGIBILITY)

No Information

TAXABLE INCOME FROM LEGAL ENTITY RECEIVED CUMULATIVELY BY THE TAXPAYER

No Information

TAXABLE INCOME FROM LEGAL ENTITY RECEIVED CUMULATIVELY BY THE DEPENDENTS

No Information

TAX PAID / WITHHELD

(Values in Reais)

01. Complementary Tax:	0,00
02. Tax paid abroad by the taxpayer and dependents	0,00
Tax due with income abroad	0,00
Tax due without income abroad	0,00
Difference to be considered for tax calculation (legal limit)	0,00
03. Income Tax Withheld at Source (Law 11.033/2004):	0,00
04. Income Tax Withheld at Source for the Taxpayer	46.502,86
05. Income Tax Withheld at Source for the Dependents	0,00
06. Taxpayer's Carnê-Leão	0,00
07. Dependent's Carnê-Leão	0,00

CARNÊ-LEÃO - (Income tax that must be paid monthly, mandatorily, by individuals residing in Brazil who receive income from another individual or from abroad)

PAYMENTS MADE

(Values in Reais)

CODE	BENEFICIARY NAME	BENEFICIARY CPF/CNPJ	AMOUNT PAID	NON-DEDUCTIBLE PORTION
Taxpayer				
11	MARIA LUIZA KRUEGER ARRUDA	005.837.949-55	280,00	0,00
Description: DENTAL TREATMENT				
11	FERNANDA BRASIL BABONI INACIO	049.604.529-60	1.830,00	0,00
Description: DENTAL TREATMENT.				
21	FLEURY S.A.	60.840.055/0154-06	320,00	0,00
Description: EXAMES DE SANGUE				
26	CENTRAL NACIONAL UNIMED COOP CENTRAL	02.812.468/0001-06	1.092,94	0,00
Description:				
36	PREVI-SIEMENS SOCIEDADE DE PREVIDENCIA PRIVADA	60.540.440/0001-63	7.402,76	0,00
Description: PRIVATE PENSION CONTRIBUTION				

PAYMENTS MADE

(Values in Reais)

CODE	BENEFICIARY NAME	BENEFICIARY CPF/CNPJ	AMOUNT PAID	NON-DEDUCTIBLE PORTION
62	DEBORA DE CASTRO DA ROCHA ADVOCACIA	38.492.806/0001-17	4.000,00	0,00

Description: ATTORNEY FEES

DONATIONS MADE

No Information

STATEMENTS OF ASSETS AND RIGHTS

(Values in Reais)

Did you update the value of any real estate property and pay the capital gain tax by 12/16/2024 in accordance with Law No. 14.973/2024?	No

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
01	11	TWO-BEDROOM APARTMENT, PURCHASED FROM SCHABATURA FOR R$501.816,11, WITH R$30.000,00 PAID IN CASH, ANOTHER R$78.435,14 PAID WITH FGTS FUNDS, AND THE REMAINING R$393.380,97 FINANCED BY BANCO DO BRASIL (CNPJ 00.000.000/0001-91), PURSUANT TO CONTRACT 916.500.341 SIGNED ON 11/01/2021. IN THE YEAR 2024 12 FINANCING INSTALLMENTS WERE PAID, TOTALING R$33.819,45, IN ADDITION TO ADVANCE PAYMENTS OF R$39.199,71. TOTAL AMOUNT PAID FOR THE PROPERTY IS R$309.997,62.	236.978,46	309.997,62

105 - BRAZIL

Municipal Registration (IPTU): 11100140144012

Address: CORONEL JOAQUIM IGNACIO TABORDA RIBAS
No.: 727
Unit: APARTMENT 1003
Neighborhood: BIGORRILHO
City: CURITIBA
State: PR ZIP Code: 80730-330
Total Area: 77,2 m²
Acquisition Date: 11/05/2021
Registered at the Notary Office: Yes
Name of the Registry office: 1st REAL ESTATE REGISTRY OFFICE
Registration: 66429/66440

03	01	COMPANY EZTEC EMPREENDIMENTOS E PARTICIPACOES SA - EZTC3 - CNPJ 08.312.229/0001-73. A QUANTITY OF 1200 WERE PURCHASED AT AN AVERAGE PRICE OF R$26,93, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	30.800,00	32.316,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20
CNPJ: 67.620.377/0001-14
Traded on the Stock Exchange: Yes Trading Code: EZTC3

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

Did you update the value of any real estate property and pay the capital gain tax by 12/16/2024 in accordance with Law No. 14.973/2024?	No

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
03	01	COMPANY SCHULZ S.A - SHUL4 - CNPJ 84.693.183/0001-68. A QUANTITY OF 2000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$4,74, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	9.480,00	9.480,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 84.693.183/0001-68

Traded on the Stock Exchange: Yes Trading Code: SHUL4

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
03	01	COMPANY PETRO RIO S.A. - PRIO3 - CNPJ 10.629.105/0001-68. A QUANTITY OF 1000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$21,36 ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	21.360,00	21.360,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 10.629.105/0001-68

Traded on the Stock Exchange: Yes Trading Code: PRIO3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
03	01	COMPANY BRASIL RESSEGUROS S.A. - IRBR3 – CNPJ 33.376.989/0001-91. A QUANTITY OF 15000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$3,60 ACQUIRED THROUGH BROKER XP INVESTIMENTOS. A REVERSE STOCK SPLIT OCCURRED IN THE PROPORTION OF 30 TO 1, MEANING TODAY I HOLD 600 SHARES AT AN AVERAGE PRICE OF R$96.21.	54.000,00	57.726,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 33.376.989/0001-91

Traded on the Stock Exchange: Yes Trading Code: IRBR3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
03	01	COMPANY MOVIDA PARTICIPACOES S.A. - MOVI3 – CNPJ 21.314.559/0001-66. A QUANTITY OF 3000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$11,88, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	28.980,00	35.640,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 21.314.559/0001-66

Traded on the Stock Exchange: Yes Trading Code: MOVI3

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
03	01	COMPANY OI S.A. - OIBR3 - CNPJ 76.535.764/0001-43. A QUANTITY OF 100 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$71,37, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	7.140,00	7.137,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 76.535.764/0001-43

STATEMENTS OF ASSETS AND RIGHTS (Values in Reais)

Did you update the value of any real estate property and pay the capital gain tax by 12/16/2024 in accordance with Law No. 14.973/2024?	No

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
		Traded on the Stock Exchange: Yes Trading Code: OIBR3		
03	01	COMPANY AMBIPAR - AMBP3 - CNPJ 12.648.266/0001-24. A QUANTITY OF 800 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$26,00, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	20.800,00	0,00
		105 - BRAZIL		
		Asset or right belonging to: Taxpayer CPF: 079.523.439-20		
		CNPJ: 12.648.266/0001-24		
		Traded on the Stock Exchange: Yes Trading Code: AMBP3		
03	01	COMPANY UNIPAR CARBOCLORO S.A - UNIP6 – CNPJ 33.958.695/0001-78. A QUANTITY OF 200 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$70,66, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	9.964,90	14.132,00
		105 - BRAZIL		
		Asset or right belonging to: Taxpayer CPF: 079.523.439-20		
		CNPJ: 33.958.695/0001-78		
		Traded on the Stock Exchange: Yes Trading Code: UNIP6		
03	01	COMPANY PETRORECONCAVO S.A - RECV3 – CNPJ 03.342.704/0001-30. A QUANTITY OF 600 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$28,95, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	17.370,00	17.370,00
		105 - BRAZIL		
		Asset or right belonging to: Taxpayer CPF: 079.523.439-20		
		CNPJ: 03.342.704/0001-30		
		Traded on the Stock Exchange: Yes Trading Code: RECV3		
03	01	COMPANY BRAVA - BRAV3 - CNPJ 12.091.809/0001-55. A QUANTITY OF 2000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$30,84, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	33.257,61	61.680,00
		105 - BRAZIL		
		Asset or right belonging to: Taxpayer CPF: 079.523.439-20		
		CNPJ: 12.091.809/0001-55		
		Traded on the Stock Exchange: Yes Trading Code: BRAV3		
03	01	EMPRESA INTER CO INC - INBR32 - CNPJ 42.737.954/0001-21. A QUANTITY OF 1000 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$19,94, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	19.942,93	19.942,93
		105 - BRAZIL		
		Asset or right belonging to: Taxpayer CPF: 079.523.439-20		
		CNPJ: 42.737.954/0001-21		
		Traded on the Stock Exchange: Yes Trading Code: INBR32		

STATEMENTS OF ASSETS AND RIGHTS

(Values in Reais)

Did you update the value of any real estate property and pay the capital gain tax by 12/16/2024 in accordance with Law No. 14.973/2024?	No

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
04	01	AMOUNTS DEPOSITED IN SAVINGS ACCOUNT AT BANCO DO BRASIL	0,00	10.003,84

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 00.000.000/0001-91

Bank: 001 Branch: 0406 Account: 38646-4

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
04	02	AVAILABLE CHECKING ACCOUNT BALANCE AT BANCO NU PAGAMENTOS S.A.	14.973,10	0,00

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 30.680.829/0001-43

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
06	01	REPORTED BY CNPJ 02.332.886/0001-04	171,95	86,57

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 02.332.886/0001-04

Bank: 102 Branch: 0001 Account: 217928-2 Payment Account? No

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
06	01	AVAILABLE BALANCE IN BANCO DO BRASIL CHECKING ACCOUNT.	20.115,02	976,49

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

CNPJ: 00.000.000/0001-91

Bank: 001 Branch: 0406 Account: 38646-4 Payment Account? No

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
08	99	A QUANTITY OF 372.654,59 QBIT CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$0,0028266, TOTALING AN INVESTMENT OF R$1.053,36, ACQUIRED THROUGH BROKER BINANCE.	1.053,36	1.053,36

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
08	99	A QUANTITY OF 1.06808 SOLANA CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$1238,99, TOTALING AN INVESTMENT OF R$1323,35, ACQUIRED THROUGH BROKER BINANCE.	1.323,35	1.323,35

105 - BRAZIL

Asset or right belonging to: Taxpayer CPF: 079.523.439-20

STATEMENTS OF ASSETS AND RIGHTS

(Values in Reais)

Did you update the value of any real estate property and pay the capital gain tax by 12/16/2024 in accordance with Law No. 14.973/2024?	No

GROUP	CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024
08	99	A QUANTITY OF 610,37 VECHAIR CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$1,0407, TOTALING AN INVESTMENT OF R$635,22, ACQUIRED THROUGH BROKER BINANCE.	635,22	635,22
105 - BRAZIL				
Asset or right belonging to:		Taxpayer CPF: 079.523.439-20		
08	99	A QUANTITY OF 53,26 POLYGON CRYPTO ASSETS WERE PURCHASED AT AN AVERAGE PRICE OF R$9,9389, TOTALING AN INVESTMENT OF R$529,35, ACQUIRED THROUGH BROKER BINANCE.	529,35	529,35
105 - BRAZIL				
Asset or right belonging to:		Taxpayer CPF: 079.523.439-20		
TOTAL			528.875,25	601.389,73

ENCUMBRANCES AND REAL LIABILITIES

(Values in Reais)

CODE	DISCLOSURE	STATUS ON 12/31/2023	STATUS ON 12/31/2024	AMOUNT PAID IN 2024
12	IBOVESPA INDEX FUND - BOVA11 – CNPJ 10.406.511/0001-61. A QUANTITY OF 440 SHARES WERE PURCHASED AT AN AVERAGE PRICE OF R$113,19, ACQUIRED THROUGH BROKER XP INVESTIMENTOS.	49.803,60	49.803,60	0,00
12	REAL ESTATE CREDIT ACQUISITION.	350.254,44	309.644,90	73.019,16
TOTAL		400.058,04	359.448,50	73.019,16

DONATIONS TO POLITICAL PARTIES AND CANDIDATES FOR ELECTIVE OFFICES

No Information

STATEMENT OF RURAL ACTIVITY - BRAZIL

IDENTIFICATION DATA OF THE EXPLORED PROPERTY - BRAZIL

No Information

INCOME AND EXPENSES - BRAZIL

No Information

CALCULATION OF THE RESULT - BRAZIL

No Information

LIVESTOCK ACTIVITY - BRAZIL

No Information

ASSETS OF RURAL ACTIVITY - BRAZIL

No Information

DEBTS RELATED TO RURAL ACTIVITY - BRAZIL

No Information

STATEMENT OF RURAL ACTIVITY - ABROAD

IDENTIFICATION DATA OF THE EXPLORED PROPERTY - ABROAD

No Information

INCOME AND EXPENSES - ABROAD

No Information

CALCULATION OF THE RESULT - ABROAD

No Information

LIVESTOCK ACTIVITY - ABROAD

No Information

ASSETS OF RURAL ACTIVITY - ABROAD

No Information

DEBTS RELATED TO RURAL ACTIVITY - ABROAD

No Information

STATEMENT OF CAPITAL GAINS CALCULATION

No Information

VARIABLE INCOME - COMMON OPERATIONS/DAY TRADE - TAXPAYER

NET GAINS OR LOSSES- JAN

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,00	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,00	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- FEB

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,00	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,00	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- MAR

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,00	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,00	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- APR

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,00	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,00	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- MAY

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,00	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,00	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- JUN

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.964,00	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.964,00	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- JUL

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	921,85	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	921,85	0,00
Negative result until the previous month	9.964,00	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.042,15	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- AUG

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.042,15	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.042,15	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- SEP

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.042,15	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.042,15	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- OCT

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.042,15	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.042,15	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- NOV

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.042,15	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.042,15	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

NET GAINS OR LOSSES- DEC

(Values in Reais)

TYPE OF MARKET/ASSET	COMMON OPERATIONS	DAY TRADE OPERATIONS
Spot Market – Stocks	0,00	0,00
Spot Market – Gold	0,00	0,00
Spot Market – Financial gold off-exchange	0,00	0,00
Options Market - Stocks	0,00	0,00
Options Market - Gold	0,00	0,00
Options Market - Off-exchange	0,00	0,00
Options Market - Others	0,00	0,00
Futures Market - US Dollar	0,00	0,00
Futures Market - Indices	0,00	0,00
Futures Market - Interest Rates	0,00	0,00
Futures Market - Others	0,00	0,00
Forward Market - Stocks/Gold	0,00	0,00
Forward Market - Others	0,00	0,00
NET RESULT OF THE MONTH	0,00	0,00
Negative result until the previous month	9.042,15	0,00
TAXABLE BASE	0,00	0,00
Loss to be offset	9.042,15	0,00
Tax Rate	15%	20%
TAX DUE	0,00	0,00

MONTH CONSOLIDATION

Total Tax Due	0,00
Day trade source income tax for the month	0,00
Day trade source income tax for previous months	0,00
Day trade source income tax to be offset	0,00
Income tax withholding (Law No. 11,033/2004) for the month	0,00
Income tax withholding (Law No. 11,033/2004) for previous months	0,00
Income tax withholding (Law No. 11,033/2004) to be offset	0,00
Tax Payable	0,00
Tax Paid	0,00

VARIABLE INCOME - COMMON OPERATIONS/DAY TRADE - DEPENDENTS

No Information

REAL ESTATE INVESTMENT FUNDS OR IN AGRO-INDUSTRIAL PRODUCTION CHAINS - TAXPAYER

No Information

REAL ESTATE INVESTMENT FUNDS OR IN AGRO-INDUSTRIAL PRODUCTION CHAINS - DEPENDENTS

No Information

DONATIONS DIRECTLY IN THE DECLARATION – ECA (STATUTE OF THE CHILD AND ADOLESCENT)

No Information

DONATIONS DIRECTLY IN THE DECLARATION - ELDERLY

No Information

NAME: JULIO CONFORTO
CPF: 079.523.439-20 **INCOME TAX - INDIVIDUAL**
ANNUAL ADJUSTMENT DECLARATION **TAX YEAR 2025** **CALENDAR YEAR 2024**

SUMMARY — TAXATION USING THE LEGAL DEDUCTION

TAXABLE INCOME

Received from Legal Entity by the taxpayer	230.378,47
Received from Legal Entity by dependents	0,00
Received from Individual/Abroad by the taxpayer	0,00
Received from Individual/Abroad by Dependents	0,00
Received Cumulatively by the taxpayer	0,00
Received Cumulatively by dependents	0,00
Taxable Income from Rural Activity	0,00
TOTAL	230.378,47

DEDUCTIONS

Contributions to the official and closed complementary pension systems referred to in § 15 of Article 40 of the CF (Federal Constitution)/1988 (up to the sponsor limit)	10.906,20
Contribution to the official pension system (Income received cumulatively)	0,00
Contribution to the complementary pension system, including the amount for the closed systems referred to in Article 40, § 15, of the CF (Federal Constitution)/1988, which exceeds the sponsor's limit	7.402,76
Dependents	4.550,16
Education Expenses	0,00
Medical Expenses	3.522,94
Judicial Alimony	0,00
Alimony by Public Deed	0,00
Judicial Alimony (Income received cumulatively)	0,00
Cash Book	0,00
TOTAL	26.382,06

TAX DUE

Taxable Base	203.996,41
Tax Due	45.358,03
Incentive Deduction	0,00
Tax Due I	45.358,03
Tax Due RRA (on received accumulated income)	0,00
Effective Tax Rate (%)	19,68
Total Tax Due	45.358,03

TAX TO BE REFUNDED 1.144,83
BALANCE OF TAX PAYABLE 0,00

INSTALLMENT PLAN

Installment Amount	0,00
Number of Installments	0

TAX PAID

Tax Withheld at Source by the Taxpayer	46.502,86
Tax Withheld at Source by Dependents	0,00
Taxpayer's Carnê-Leão	0,00
Dependents' Carnê-Leão	0,00
Complementary Tax	0,00
Tax Paid Abroad	0,00
Tax Withheld at Source (Law No. 11.033/2004)	0,00
Tax Withheld RRA	0,00
Total Tax Paid	46.502,86

BANKING INFORMATION

Account Type	Checking Account
Bank	001
Branch (without verification digit)	406
Account for debit	38646 4

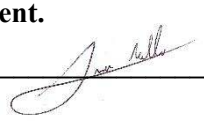
ASSET EVOLUTION

Assets and Rights on 12/31/2023	528.875,25
Assets and Rights on 12/31/2024	601.389,73
Encumbrances and Real Liabilities on 12/31/2023	400.058,04
Encumbrances and Real Liabilities on 12/31/2024	359.448,50

OTHER INFORMATION

Exempt and non-taxable income	2.282,00
Income subject to exclusive/definitive taxation	23.393,33
Taxable income - tax with suspended liability	0,00
Judicial Deposits of Tax	0,00
Tax Paid on Capital Gains	0,00
Tax Paid on Capital Gains Foreign Currency - Assets, Rights, and Financial Investments	0,00
Total tax withheld at source (Law No. 11.033/2004), as per the data provided by the taxpayer	0,00
Tax Paid on Variable Income	0,00
Donations to Political Parties and Candidates for Elective Office	0,00
Tax Payable on Capital Gain - Foreign Currency in Cash	0,00
Deferred Tax on Capital Gains	0,00
Tax Due on Capital Gains	0,00
Tax Due on Net Income from Variable Income	0,00
Tax Due on Capital Gains in Foreign Currency - Assets, Rights, and Financial Investments	0,00

I, André Vinícius Inacio Penna Mello, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: August 6, 2026

NOME: JULIO CONFORTO
CPF: 079.523.439-20 **IMPOSTO SOBRE A RENDA - PESSOA FÍSICA**
DECLARAÇÃO DE AJUSTE ANUAL **EXERCÍCIO 2025** **ANO-CALENDÁRIO 2024**

IDENTIFICAÇÃO DO CONTRIBUINTE

Nome:	JULIO CONFORTO	CPF:	079.523.439-20
Data de Nascimento:	26/07/1991		
Possui cônjuge ou companheiro(a)?	Sim	CPF do cônjuge ou companheiro(a):	065.335.259-05

Era residente no exterior e passou a ser residente no Brasil em 2024? Não

Houve alteração de dados cadastrais? Não

Um dos declarantes é pessoa com doença grave ou portadora de deficiência física ou mental? Não

Endereço:	RUA CORONEL JOAQUIM IGNACIO TABORDA RIBAS	Número:	727
Complemento:	APTO 1003	Bairro/Distrito:	BIGORRILHO
Município:	CURITIBA	UF:	PR
CEP:	80730-330	DDD/Telefone:	(41) 99851-7658
E-mail:	CONFORTO.JULIO@GMAIL.COM	DDD/Celular:	(41) 99851-7658

Natureza da Ocupação: 01 - Empregado de empresa do setor privado, exceto de instituições financeiras

Ocupação Principal: 214 - Engenheiro, arquiteto e afins

Tipo de declaração: Declaração de Ajuste Anual Original

Nº do recibo da última declaração entregue do exercício de 2024: 31.25.80.39.24-99

PROTEGIDA POR SIGILO FISCAL

DEPENDENTES

CÓDIGO	NOME	DATA DE NASCIMENTO	CPF
31	JOAO PEDRO CONFORTO	25/06/1962	450.184.999-15
Email :		Celular :	
Dependente mora com o titular da declaração? Não			
31	FATIMA CARRARO CONFORTO	07/11/1964	531.198.439-20
Email :		Celular :	
Dependente mora com o titular da declaração? Não			

TOTAL DE DEDUÇÃO COM DEPENDENTES 4.550,16

ALIMENTANDOS

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELO TITULAR

(Valores em Reais)

NOME DA FONTE PAGADORA	REND. RECEBIDOS DE PES. JURÍDICA	CONTR. PREVID. OFICIAL	IMPOSTO RETIDO NA FONTE	13º SALÁRIO	IRRF SOBRE 13º SALÁRIO
SIEMENS HEALTHCARE DIAGNOSTICOS LTDA CNPJ/CPF: 01.449.930/0001-90	230.378,47	10.906,20	46.502,86	12.071,40	3.342,95
TOTAL	230.378,47	10.906,20	46.502,86	12.071,40	3.342,95

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELOS DEPENDENTES

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA FÍSICA E DO EXTERIOR PELO TITULAR

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA FÍSICA E DO EXTERIOR PELOS DEPENDENTES

Sem Informações

RENDIMENTOS ISENTOS E NÃO TRIBUTÁVEIS

(Valores em Reais)

09. Lucros e dividendos recebidos — 1.180,28

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	33.958.695/0001-78	UNIPAR CARBOCLORO S.A.	711,00
Titular	079.523.439-20	08.312.229/0001-73	EZTEC EMPREENDIMENTOS E PARTICIPACOES S/A	315,87
Titular	079.523.439-20	00.416.968/0001-01	BANCO INTER	153,41

12. Rendimentos de cadernetas de poupança, letras hipotecárias, letras de crédito do agronegócio e imobiliário (LCA e LCI) e certificados de recebíveis do agronegócio e imobiliários (CRA e CRI) — 179,87

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	00.000.000/0001-91	BANCO DO BRASIL SA	179,87

22. Recuperação de Prejuízos em Renda Variável (bolsa de valores, de mercadorias, de futuros e assemelhados e fundos de investimento imobiliário) — 921,85

TOTAL — 2.282,00

RENDIMENTOS SUJEITOS À TRIBUTAÇÃO EXCLUSIVA / DEFINITIVA

(Valores em Reais)

01. 13º salário — 12.071,40

06. Rendimentos de aplicações financeiras — 1.131,51

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	00.000.000/0001-91	BANCO DO BRASIL SA	4,29
Titular	079.523.439-20	30.680.829/0001-43	NU FINANCEIRA S.A.	1.127,22

10. Juros sobre capital próprio — 851,07

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	84.693.183/0001-68	SCHULZ S.A.	851,07

11. Participação nos lucros ou resultados — 9.339,35

Beneficiário	CPF	CNPJ da Fonte Pagadora	Nome da Fonte Pagadora	Valor
Titular	079.523.439-20	01.449.930/0001-90	SIEMENS HEALTHCARE DIAGNOSTICOS LTDA	9.339,35

TOTAL — 23.393,33

PROTEGIDA POR SIGILO FISCAL

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELO TITULAR (IMPOSTO COM EXIGIBILIDADE SUSPENSA)

Sem Informações

RENDIMENTOS TRIBUTÁVEIS RECEBIDOS DE PESSOA JURÍDICA PELOS DEPENDENTES (IMPOSTO COM EXIGIBILIDADE SUSPENSA)

Sem Informações

RENDIMENTOS TRIBUTÁVEIS DE PESSOA JURÍDICA RECEBIDOS ACUMULADAMENTE PELO TITULAR

Sem Informações

RENDIMENTOS TRIBUTÁVEIS DE PESSOA JURÍDICA RECEBIDOS ACUMULADAMENTE PELOS DEPENDENTES

Sem Informações

IMPOSTO PAGO / RETIDO

(Valores em Reais)

01. Imposto complementar	0,00
02. Imposto pago no exterior pelo titular e pelos dependentes	0,00
Imposto devido com os rendimentos no exterior	0,00
Imposto devido sem os rendimentos no exterior	0,00
Diferença a ser considerada para cálculo do imposto (limite legal)	0,00
03. Imposto sobre a renda na fonte (Lei 11.033/2004)	0,00
04. Imposto retido na fonte do titular	46.502,86
05. Imposto retido na fonte dos dependentes	0,00
06. Carnê-Leão do titular	0,00
07. Carnê-Leão dos dependentes	0,00

PAGAMENTOS EFETUADOS

(Valores em Reais)

CÓD.	NOME DO BENEFICIÁRIO	CPF/CNPJ DO BENEFICIÁRIO	VALOR PAGO	PARC. NÃO DEDUTÍVEL
Titular				
11	MARIA LUIZA KRUEGER ARRUDA	005.837.949-55	280,00	0,00
Descrição:	ODONTOLOGO			
11	FERNANDA BRASIL BABONI INACIO	049.604.529-60	1.830,00	0,00
Descrição:	TRATAMENTO ODONTOLOGICO.			
21	FLEURY S.A.	60.840.055/0154-06	320,00	0,00
Descrição:	EXAMES DE SANGUE			
26	CENTRAL NACIONAL UNIMED COOP CENTRAL	02.812.468/0001-06	1.092,94	0,00
Descrição:				
36	PREVI-SIEMENS SOCIEDADE DE PREVIDENCIA PRIVADA	60.540.440/0001-63	7.402,76	0,00
Descrição:	PREVIDENCIA COMPLEMENTAR			

PROTEGIDA POR SIGILO FISCAL

PAGAMENTOS EFETUADOS

(Valores em Reais)

CÓD.	NOME DO BENEFICIÁRIO	CPF/CNPJ DO BENEFICIÁRIO	VALOR PAGO	PARC. NÃO DEDUTÍVEL
62	DEBORA DE CASTRO DA ROCHA ADVOCACIA	38.492.806/0001-17	4.000,00	0,00

Descrição: CONTRATACAO DE ADVOGADO

DOAÇÕES EFETUADAS

Sem Informações

DECLARAÇÃO DE BENS E DIREITOS

(Valores em Reais)

Atualizou o valor de algum bem imóvel e pagou o ganho de capital até 16/12/2024 de acordo com a Lei nº 14.973/2024?	Não

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
01	11	APARTAMENTO DE DOIS DORMITORIOS, ADQUIRIDO DA SCHABATURA POR R$501.816,11, SENDO R$30.000,00 PAGOS A VISTA, OUTROS R$78.435,14 PAGOS COM RECURSOS DO FGTS E O R$393.380,97 RESTANTES FINANCIADOS PELO BANCO DO BRASIL (CNPJ 00.000.000/0001-91), CONFORME CONTRATO 916.500.341 ASSINADO EM 01/11/2021. NO ANO DE 2024 FORAM PAGOS 12 PARCELAS DO FINANCIAMENTO, TOTALIZANDO O VALOR DE R$33.819,45, ALEM DOS VALORES PAGOS ADIANTADOS DE R$39.199,71. VALOR TOTAL PAGO NO IMOVEL E DE R$309.997,62.	236.978,46	309.997,62

105 - Brasil

Inscrição Municipal (IPTU): 11100140144012

Logradouro: CORONEL JOAQUIM IGNACIO TABORDA RIBAS
Nº: 727
Comp.: APARTAMENTO 1003
Bairro: BIGORRILHO
Município: CURITIBA
UF: PR CEP: 80730-330
Área Total: 77,2 m²
Data de Aquisição: 05/11/2021
Registrado no Cartório: Sim
Nome Cartório: 1O REGISTRO DE IMOVEIS
Matrícula: 66429/66440

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
03	01	EMPRESA EZTEC EMPREENDIMENTOS E PARTICIPACOES SA - EZTC3 - CNPJ 08.312.229/0001-73. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1200 A UM PRECO MEDIO DE R$26,93, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	30.800,00	32.316,00

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20
CNPJ: 67.620.377/0001-14
Negociados em Bolsa: Sim Código de Negociação: EZTC3

PROTEGIDA POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS

(Valores em Reais)

Atualizou o valor de algum bem imóvel e pagou o ganho de capital até 16/12/2024 de acordo com a Lei nº 14.973/2024?	Não

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
03	01	EMPRESA SCHULZ S.A - SHUL4 - CNPJ 84.693.183/0001-68. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 2000 A UM PRECO MEDIO DE R$4,74, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	9.480,00	9.480,00

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

CNPJ: 84.693.183/0001-68

Negociados em Bolsa: Sim Código de Negociação: SHUL4

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
03	01	EMPRESA PETRO RIO S.A. - PRIO3 - CNPJ 10.629.105/0001-68. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1000 A UM PRECO MEDIO DE R$21,36 ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	21.360,00	21.360,00

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

CNPJ: 10.629.105/0001-68

Negociados em Bolsa: Sim Código de Negociação: PRIO3

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
03	01	EMPRESA BRASIL RESSEGUROS S.A. - IRBR3 - CNPJ 33.376.989/0001-91. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 15000 A UM PRECO MEDIO DE R$3,60, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. HOUVE UM AGRUPAMENTO NA PROPORCAO DE 30 PARA 1, OU SEJA, HOJE EU TENHO 600 ACOES A UM PRECO MEDIO DE R$96.21.	54.000,00	57.726,00

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

CNPJ: 33.376.989/0001-91

Negociados em Bolsa: Sim Código de Negociação: IRBR3

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
03	01	EMPRESA MOVIDA PARTICIPACOES S.A. - MOVI3 - CNPJ 21.314.559/0001-66. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 3000 A UM PRECO MEDIO DE R$11,88, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	28.980,00	35.640,00

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

CNPJ: 21.314.559/0001-66

Negociados em Bolsa: Sim Código de Negociação: MOVI3

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
03	01	EMPRESA OI S.A. - OIBR3 - CNPJ 76.535.764/0001-43. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 100 A UM PRECO MEDIO DE R$71,37, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	7.140,00	7.137,00

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

CNPJ: 76.535.764/0001-43

PROTEGIDO POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS (Valores em Reais)

Atualizou o valor de algum bem imóvel e pagou o ganho de capital até 16/12/2024 de acordo com a Lei nº 14.973/2024?	Não

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
		Negociados em Bolsa: Sim Código de Negociação: OIBR3		
03	01	EMPRESA AMBIPAR - AMBP3 - CNPJ 12.648.266/0001-24. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 800 A UM PRECO MEDIO DE R$26,00, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - Brasil Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 12.648.266/0001-24 Negociados em Bolsa: Sim Código de Negociação: AMBP3	20.800,00	0,00
03	01	EMPRESA UNIPAR CARBOCLORO S.A - UNIP6 - CNPJ 33.958.695/0001-78. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 200 A UM PRECO MEDIO DE R$70,66, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - Brasil Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 33.958.695/0001-78 Negociados em Bolsa: Sim Código de Negociação: UNIP6	9.964,90	14.132,00
03	01	EMPRESA PETRORECONCAVO S.A - RECV3 - CNPJ 03.342.704/0001-30. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 600 A UM PRECO MEDIO DE R$28,95, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - Brasil Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 03.342.704/0001-30 Negociados em Bolsa: Sim Código de Negociação: RECV3	17.370,00	17.370,00
03	01	EMPRESA BRAVA - BRAV3 - CNPJ 12.091.809/0001-55. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 2000 A UM PRECO MEDIO DE R$30,84, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - Brasil Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 12.091.809/0001-55 Negociados em Bolsa: Sim Código de Negociação: BRAV3	33.257,61	61.680,00
03	01	EMPRESA INTER CO INC - INBR32 - CNPJ 42.737.954/0001-21. FORAM COMPRADAS UMA QUANTIDADE DE ACOES DE 1000 A UM PRECO MEDIO DE R$19,94, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS. 105 - Brasil Bem ou direito pertencente ao: Titular CPF: 079.523.439-20 CNPJ: 42.737.954/0001-21 Negociados em Bolsa: Sim Código de Negociação: INBR32	19.942,93	19.942,93

PROTEGIDO POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS

(Valores em Reais)

Atualizou o valor de algum bem imóvel e pagou o ganho de capital até 16/12/2024 de acordo com a Lei nº 14.973/2024?	Não

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
04	01	VALORES DEPOSITADOS EM POUPANCA NO BANCO DO BRASIL	0,00	10.003,84

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

CNPJ: 00.000.000/0001-91

Banco: 001 Agência: 0406 Conta: 38646-4

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
04	02	SALDO EM CONTA CORRENTE DISPONIVEL NO BANCO NU PAGAMENTOS S.A.	14.973,10	0,00

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

CNPJ: 30.680.829/0001-43

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
06	01	INFORMADO POR CNPJ 02.332.886/0001-04	171,95	86,57

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

CNPJ: 02.332.886/0001-04

Banco: 102 Agência: 0001 Conta: 217928-2 Conta Pagamento? Não

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
06	01	DINHEIRO DISPONIVEL NA CONTA CORRENTE DO BANCO DO BRASIL.	20.115,02	976,49

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

CNPJ: 00.000.000/0001-91

Banco: 001 Agência: 0406 Conta: 38646-4 Conta Pagamento? Não

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS QBIT 372.654,59 A UM PRECO MEDIO DE R$0,0028266, TOTALIZANDO O INVESTIMENTO DE R$1.053,36, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE.	1.053,36	1.053,36

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS SOLANA 1.06808 A UM PRECO MEDIO DE R$1238,99, TOTALIZANDO O INVESTIMENTO DE R$1323,35, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE.	1.323,35	1.323,35

105 - Brasil

Bem ou direito pertencente ao: Titular CPF: 079.523.439-20

PROTEGIDA POR SIGILO FISCAL

DECLARAÇÃO DE BENS E DIREITOS

(Valores em Reais)

Atualizou o valor de algum bem imóvel e pagou o ganho de capital até 16/12/2024 de acordo com a Lei nº 14.973/2024?	Não

GRUPO	CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS VECHAIR 610,37 A UM PRECO MEDIO DE R$1,0407, TOTALIZANDO O INVESTIMENTO DE R$635,22, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE. 105 - Brasil Bem ou direito pertencente ao: Titular CPF: 079.523.439-20	635,22	635,22
08	99	FORAM COMPRADAS UMA QUANTIDADE DE CRIPTOATIVOS POLYGON 53,26 A UM PRECO MEDIO DE R$9,9389, TOTALIZANDO O INVESTIMENTO DE R$529,35, ADQUIRIDAS ATRAVES DA CORRETORA BINANCE. 105 - Brasil Bem ou direito pertencente ao: Titular CPF: 079.523.439-20	529,35	529,35
TOTAL			528.875,25	601.389,73

DÍVIDAS E ÔNUS REAIS

(Valores em Reais)

CÓDIGO	DISCRIMINAÇÃO	SITUAÇÃO EM 31/12/2023	SITUAÇÃO EM 31/12/2024	VALOR PAGO EM 2024
12	FUNDO DO INDICE IBOVESPA - BOVA11 - CNPJ 10.406.511/0001-61. FORAM VENDIDAS A QUANTIDADE TOTAL DE ACOES DE 440 A UM PRECO MEDIO DE R$113,19, ADQUIRIDAS ATRAVES DA CORRETORA XP INVESTIMENTOS.	49.803,60	49.803,60	0,00
12	CREDITO IMOBILIARIO AQUISICAO.	350.254,44	309.644,90	73.019,16
TOTAL		400.058,04	359.448,50	73.019,16

DOAÇÕES A PARTIDOS POLÍTICOS E CANDIDATOS A CARGOS ELETIVOS

Sem Informações

PROTEGIDA POR SIGILO FISCAL

DEMONSTRATIVO DE ATIVIDADE RURAL - BRASIL

DADOS E IDENTIFICAÇÃO DO IMÓVEL EXPLORADO - BRASIL

Sem Informações

RECEITAS E DESPESAS - BRASIL

Sem Informações

APURAÇÃO DO RESULTADO - BRASIL

Sem Informações

MOVIMENTAÇÃO DO REBANHO - BRASIL

Sem Informações

BENS DA ATIVIDADE RURAL - BRASIL

Sem Informações

DÍVIDAS VINCULADAS À ATIVIDADE RURAL - BRASIL

Sem Informações

PROTEGIDA POR SIGILO FISCAL

DEMONSTRATIVO DE ATIVIDADE RURAL - EXTERIOR

DADOS E IDENTIFICAÇÃO DO IMÓVEL EXPLORADO - EXTERIOR

Sem Informações

RECEITAS E DESPESAS - EXTERIOR

Sem Informações

APURAÇÃO DO RESULTADO - EXTERIOR

Sem Informações

MOVIMENTAÇÃO DO REBANHO - EXTERIOR

Sem Informações

BENS DA ATIVIDADE RURAL - EXTERIOR

Sem Informações

DÍVIDAS VINCULADAS À ATIVIDADE RURAL - EXTERIOR

Sem Informações

DEMONSTRATIVO DA APURAÇÃO DOS GANHOS DE CAPITAL

Sem Informações

PROTEGIDA POR SIGILO FISCAL

RENDA VARIÁVEL - OPERAÇÕES COMUNS/DAYTRADE - TITULAR

GANHOS LÍQUIDOS OU PERDAS - JAN

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,00	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,00	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - FEV

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,00	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,00	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - MAR

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,00	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,00	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - ABR

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,00	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,00	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - MAI

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,00	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,00	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - JUN

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.964,00	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.964,00	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - JUL

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	921,85	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	921,85	0,00
Resultado negativo até o mês anterior	9.964,00	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.042,15	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - AGO

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.042,15	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.042,15	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - SET

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.042,15	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.042,15	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - OUT

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.042,15	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.042,15	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - NOV

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.042,15	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.042,15	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

PROTEGIDA POR SIGILO FISCAL

GANHOS LÍQUIDOS OU PERDAS - DEZ

(Valores em Reais)

TIPO DE MERCADO/ATIVO	OPERAÇÕES COMUNS	OPERAÇÕES DAY-TRADE
Mercado à Vista - Ações	0,00	0,00
Mercado à Vista - Ouro	0,00	0,00
Mercado à Vista - Ouro ativo financeiro fora de bolsa	0,00	0,00
Mercado de Opções - Ações	0,00	0,00
Mercado de Opções - Ouro	0,00	0,00
Mercado de Opções - Fora de bolsa	0,00	0,00
Mercado de Opções - Outros	0,00	0,00
Mercado Futuro - Dólar dos EUA	0,00	0,00
Mercado Futuro - Índices	0,00	0,00
Mercado Futuro - Juros	0,00	0,00
Mercado Futuro - Outros	0,00	0,00
Mercado a Termo - Ações/Ouro	0,00	0,00
Mercado a Termo - Outros	0,00	0,00
RESULTADO LÍQUIDO DO MÊS	0,00	0,00
Resultado negativo até o mês anterior	9.042,15	0,00
BASE DE CÁLCULO DO IMPOSTO	0,00	0,00
Prejuízo a compensar	9.042,15	0,00
Alíquota do imposto	15%	20%
IMPOSTO DEVIDO	0,00	0,00

CONSOLIDAÇÃO DO MÊS

Total do imposto devido	0,00
IR fonte de day-trade do mês	0,00
IR fonte de day-trade dos meses anteriores	0,00
IR fonte de day-trade a compensar	0,00
IR fonte (Lei nº 11.033/2004) no mês	0,00
IR fonte (Lei nº 11.033/2004) nos meses anteriores	0,00
IR fonte (Lei nº 11.033/2004) a compensar	0,00
Imposto a pagar	0,00
Imposto pago	0,00

RENDA VARIÁVEL - OPERAÇÕES COMUNS/DAYTRADE - DEPENDENTES

Sem Informações

FUNDOS DE INVESTIMENTO IMOBILIÁRIO OU NAS CADEIAS PRODUTIVAS AGROINDUSTRIAIS - TITULAR

Sem Informações

FUNDOS DE INVESTIMENTO IMOBILIÁRIO OU NAS CADEIAS PRODUTIVAS AGROINDUSTRIAIS - DEPENDENTES

Sem Informações

DOAÇÕES DIRETAMENTE NA DECLARAÇÃO - ECA

Sem Informações

DOAÇÕES DIRETAMENTE NA DECLARAÇÃO - IDOSO

Sem Informações

PROTEGIDA POR SIGILO FISCAL

NOME: JULIO CONFORTO
CPF: 079.523.439-20 **IMPOSTO SOBRE A RENDA - PESSOA FÍSICA**
DECLARAÇÃO DE AJUSTE ANUAL **EXERCÍCIO 2025** **ANO-CALENDÁRIO 2024**

RESUMO — TRIBUTAÇÃO UTILIZANDO AS DEDUÇÕES LEGAIS

RENDIMENTOS TRIBUTÁVEIS

Recebidos de Pessoa Jurídica pelo titular	230.378,47
Recebidos de Pessoa Jurídica pelos dependentes	0,00
Recebidos de Pessoa Física/Exterior pelo titular	0,00
Recebidos de Pessoa Física/Exterior pelos dependentes	0,00
Recebidos acumuladamente pelo titular	0,00
Recebidos acumuladamente pelos dependentes	0,00
Resultado tributável da Atividade Rural	0,00
TOTAL	230.378,47

DEDUÇÕES

Contribuições às previdências oficial e complementar fechada de que trata o § 15 do art. 40 da CF/1988 (até o limite do patrocinador)	10.906,20
Contribuição à previdência oficial (Rendimentos recebidos acumuladamente)	0,00
Contribuição à prev. complementar, inclusive o valor para as fechadas de que trata o § 15 do art. 40 da CF/1988 que exceder o limite do patrocinador	7.402,76
Dependentes	4.550,16
Despesas com instrução	0,00
Despesas médicas	3.522,94
Pensão alimentícia judicial	0,00
Pensão alimentícia por escritura pública	0,00
Pensão alimentícia judicial (Rendimentos recebidos acumuladamente)	0,00
Livro caixa	0,00
TOTAL	26.382,06

IMPOSTO DEVIDO

Base de cálculo do imposto	203.996,41
Imposto devido	45.358,03
Dedução de incentivo	0,00
Imposto devido I	45.358,03
Imposto devido RRA	0,00
Aliquota efetiva (%)	19,68
Total do imposto devido	45.358,03

IMPOSTO A RESTITUIR	1.144,83
SALDO DE IMPOSTO A PAGAR	0,00

PARCELAMENTO

Valor da quota	0,00
Número de Quotas	0

IMPOSTO PAGO

Imposto retido na fonte do titular	46.502,86
Imp. retido na fonte dos dependentes	0,00
Carnê-Leão do titular	0,00
Carnê-Leão dos dependentes	0,00
Imposto complementar	0,00
Imposto pago no exterior	0,00
Imposto retido na fonte (Lei nº 11.033/2004)	0,00
Imposto retido RRA	0,00
Total do imposto pago	46.502,86

INFORMAÇÕES BANCÁRIAS

Tipo de Conta	Conta Corrente
Banco	001
Agência (sem DV)	406
Conta para crédito	38646 4

PROTEGIDA POR SIGILO FISCAL

EVOLUÇÃO PATRIMONIAL

Bens e direitos em 31/12/2023	528.875,25
Bens e direitos em 31/12/2024	601.389,73
Dívidas e ônus reais em 31/12/2023	400.058,04
Dívidas e ônus reais em 31/12/2024	359.448,50

OUTRAS INFORMAÇÕES

Rendimentos isentos e não tributáveis	2.282,00
Rendimentos sujeitos à tributação exclusiva/definitiva	23.393,33
Rendimentos tributáveis - imposto com exigibilidade suspensa	0,00
Depósitos judiciais do imposto	0,00
Imposto pago sobre Ganhos de Capital	0,00
Imposto pago Ganhos de Capital Moeda Estrangeira - Bens, direitos e Aplicações Financeiras	0,00
Total do imposto retido na fonte (Lei nº11.033/2004), conforme dados informados pelo contribuinte	0,00
Imposto pago sobre Renda Variável	0,00
Doações a Partidos Políticos e Candidatos a Cargos Eletivos	0,00
Imposto a pagar sobre o Ganho de Capital - Moeda Estrangeira em Espécie	0,00
Imposto diferido dos Ganhos de Capital	0,00
Imposto devido sobre Ganhos de Capital	0,00
Imposto devido sobre ganhos líquidos em Renda Variável	0,00
Imposto devido sobre Ganhos de Capital Moeda Estrangeira - Bens, direitos e aplic. financeiras	0,00

PROTEGIDA POR SIGILO FISCAL

PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	12,965.95 / MONTH	APRIL/30/2024

PAYMENT DATE: **04/30/2024**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	220.00	12,965.95	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		259.74	
1603	55% Overtime	18.48	1,688.28	
3468	Overtime Difference		9.93	
4597	Housing Allowance		2,593.19	
2821	Mid-Month Salary Advance			5,186.38
3579	PreviSiemens CD I			139.40
3580	PreviSiemens CD II			419.72
4303	Unimed SP – Employee			72.00
4304	Unimed SP – Dependent			72.00
5500	Income Tax Withheld			3,517.51
5560	Social Security (INSS)			908.85
7655	Meal Voucher			220.00
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			16,049.12
5561	INSS Contribution Base			7,786.02
8000	Contribution Salary			17,517.09
8002	Salary Contribution – Taxable Basis			17,517.09
1330	*FGTS Base (Monthly Remuneration)			17,517.09
1330	FGTS (Monthly Remuneration)			1,401.36
8010	Employee INSS Contribution Salary			17,517.09
8100	Employer INSS Contribution	20.00		3,503.42
8101	Occupational Accident Insurance (RAT)			87.59

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	17,517.09	**10,535.86**	**6,981.23**

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*FGTS - Length-of-Service Guarantee Fund

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: July 31, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	12.965,95/MES	30/ABRIL/2024

DATA DE PAGAMENTO: ***30/04/2024***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	220,00	12.965,95	
0502 DSR (H.E./Adic.Not.)		259,74	
1603 Horas Extras 55%	18,48	1.688,28	
3468 DIF. HORAS EXTRAS		9,93	
4597 Ajuda Moradia %		2.593,19	
2821 Adiant Quinzenal			5.186,38
3579 PreviSiemens CD I			139,40
3580 PreviSiemens CD II			419,72
4303 UNIMED SP EMPREGAJDO			72,00
4304 UNIMED SP DEPENDENTE			72,00
5500 IR Retido			3.517,51
5560 INSS			908,85
7655 Vale Refeição			220,00
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			16.049,12
5561 Base INSS			7.786,02
8000 Salario Contribuicao			17.517,09
8002 Contribuição - Trib. Salário			17.517,09
1300 Base FGTS RecMes - Remun			17.517,09
1330 FGTS RecMes - Remun			1.401,36
8010 Salário Contribuição INSS Empregado			17.517,09
8100 Inss Empregador	20,00		3.503,42
8101 RAT			87,59

	VENCIMENTOS	DESCONTOS	LÍQUIDO
T O T A I S	17.517,09	10.535,86	6.981,23

ADP web recursos humanos

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PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	13,614.25 / MONTH	13th SALARY ADV

PAYMENT DATE: **11/29/2024**

ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0508 13th Salary - Advance	12.00	6,807.12	
2764 13th Salary Advance Average		615.20	
----- ---- BASES / OTHER ----- ----	---------	----------	----------

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	7,422.32	**0.00**	**7,422.32**

3324 / 469 ACQR59 11/24/2024 – 11:11:01 PM

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: July 31, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	13.614,25/MES	adt. 13°

DATA DE PAGAMENTO: ***29/11/2024***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0508 13° Salário - Adiantamento	12,00	6.807,12	
2764 MÉDIA ADTO. 13° SALÁRIO		615,20	
---- -----BASE/OUTROS----- ----	-----	----------	----------

	VENCIMENTOS	DESCONTOS	LÍQUIDO
T O T A I S	7.422,32	0,00	7.422,32

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PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	12,965.95 / MONTH	FEBRUARY/29/2024

PAYMENT DATE: **02/29/2024**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	220.00	12,965.95	
0101	Salary Difference (Collective Bargaining)		5,195.32	
0102	Vacation Pay Difference (Collective Bargaining)		1,103.34	
0106	13th Salary Difference (Collective Bargaining)		753.10	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		533.04	
1601	75% Overtime	13.41	1,383.17	
1603	55% Overtime	20.00	1,827.14	
1799	Reduced Hours	0.86	50.69	
1800	Night Shift Premium 20%	5.98	70.49	
4597	Housing Allowance		2,593.19	
2821	Mid-Month Salary Advance			4,916.00
3579	PreviSiemens CD I			139.40
3580	PreviSiemens CD II			419.72
4303	Unimed SP – Employee			72.00
4304	Unimed SP – Dependent			72.00
5500	Income Tax Withheld			4,228.64
5560	Social Security (INSS)			908.85
5860	Assistance Contribution			80.00
7655	Meal Voucher			220.00
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			18,635.07
5561	INSS Contribution Base			7,786.02
8000	Contribution Salary			19,423.67
8002	Salary Contribution – Taxable Basis			19,423.67
9921	FGTS Base			19,423.67
1330	FGTS (Monthly Remuneration)			1,401.36
5511	Income Tax Base – Accumulated Payments (RRA)			6,372.39
8010	Employee INSS Contribution Salary			19,423.67
8200	Employer INSS Contribution (Collective Bargaining)			1,410.36
8201	Occupational Accident Insurance (RAT) (CB)			35.27
8100	Employer INSS Contribution	20.00		3,884.73
8101	Occupational Accident Insurance (RAT)			97.12
9920	FGTS Contribution			1,553.89

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	26,475.43	**11,056.61**	**15,418.82**

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FGTS - Length-of-Service Guarantee Fund
CB - Collective Bargaining

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: July 31, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	12.965,95/MES	29/FEVEREIRO/2024

DATA DE PAGAMENTO: ***29/02/2024***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	220,00	12.965,95	
0101 DIF. SAL. DISSIDIO		5.195,32	
0102 DIF. FÉRIAS DISSÍDIO		1.103,34	
0106 DIF. DEC. TERCEIRO DISSIDIO		753,10	
0502 DSR (H.E./Adic.Not.)		533,04	
1601 Horas Extras - 75%	13,41	1.383,17	
1603 Horas Extras 55%	20,00	1.827,14	
1799 Horas Reduzidas	0,86	50,69	
1800 Adicional Noturno 20%	5,98	70,49	
4597 Ajuda Moradia %		2.593,19	
2821 Adiant Quinzenal			4.916,00
3579 PreviSiemens CD I			139,40
3580 PreviSiemens CD II			419,72
4303 UNIMED SP EMPREGAJDO			72,00
4304 UNIMED SP DEPENDENTE			72,00
5500 IR Retido			4.228,64
5560 INSS			908,85
5860 Contrib Assistencial			80,00
7655 Vale Refeição			220,00
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			18.635,07
5561 Base INSS			7.786,02
8000 Salario Contribuicao			19.423,67
8002 Contribuição - Trib. Salário			19.423,67
9921 Base FGTS			19.423,67
5511 Base IR RRA			6.372,39
8010 Salário Contribuição INSS Empregado			19.423,67
8200 INSS Empregador - Dif Dissidio			1.410,36
8201 RAT - Dif Dissidio			35,27
8100 Inss Empregador	20,00		3.884,73
8101 RAT			97,12
9920 FGTS			1.553,89

	VENCIMENTOS	DESCONTOS	LÍQUIDO
T O T A I S	26.475,43	11.056,61	15.418,82

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PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	12,965.95 / MONTH	JULY/31/2024

PAYMENT DATE: **07/31/2024**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	220.00	12,965.95	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		399.15	
1602	100% Overtime	8.00	943.04	
1603	55% Overtime	18.73	1,711.12	
1799	Reduced Hours	0.28	16.50	
1800	Night Shift Differential (20%)	2.00	23.58	
3039	Housing Allowance		2,593.19	
2821	Mid-Month Salary Advance			5,186.38
3579	PreviSiemens CD I			139.40
3580	PreviSiemens CD II			419.72
4303	Unimed SP – Employee			72.00
4304	Unimed SP – Dependent			72.00
5500	Income Tax Withheld			3,829.75
5560	Social Security (INSS)			908.85
7655	Meal Voucher			220.00
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			17,184.56
5561	INSS Contribution Base			7,786.02
8000	Contribution Salary			18,652.53
8002	Salary Contribution – Taxable Basis			18,652.53
1300	FGTS Base – Current Month Remuneration			18,652.53
1330	FGTS Base			1,492.20
8010	Employee INSS Contribution Salary			18,652.53
8100	Employer INSS Contribution	20.00		3,730.51
8101	Occupational Accident Insurance (RAT)			93.26

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	18,652.53	**10,848.10**	**7,804.43**

Happy Birthday

3324 / 469 ACQR59 07/24/2024 – 5:27:44 AM

FGTS - Length-of-Service Guarantee Fund

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Marina Viana

Date: July 31, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	12.965,95/MES	31/JULHO/2024

DATA DE PAGAMENTO: ***31/07/2024***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	220,00	12.965,95	
0502 DSR (H.E./Adic.Not.)		399,15	
1602 Horas Extras - 100%	8,00	943,04	
1603 Horas Extras 55%	18,73	1.711,12	
1799 Horas Reduzidas	0,28	16,50	
1800 Adicional Noturno 20%	2,00	23,58	
4597 Ajuda Moradia %		2.593,19	
2821 Adiant Quinzenal			5.186,38
3579 PreviSiemens CD I			139,40
3580 PreviSiemens CD II			419,72
4303 UNIMED SP EMPREGAJDO			72,00
4304 UNIMED SP DEPENDENTE			72,00
5500 IR Retido			3.829,75
5560 INSS			908,85
7655 Vale Refeição			220,00
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			17.184,56
5561 Base INSS			7.786,02
8000 Salario Contribuicao			18.652,53
8002 Contribuição - Trib. Salário			18.652,53
1300 Base FGTS RecMes - Remun			18.652,53
1330 FGTS RecMes - Remun			1.492,20
8010 Salário Contribuição INSS Empregado			18.652,53
8100 Inss Empregador	20,00		3.730,51
8101 RAT			93,26

	VENCIMENTOS	DESCONTOS	LÍQUIDO
T O T A I S	18.652,53	10.848,10	7.804,43

Feliz Aniversário

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PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	12,965.95 / MONTH	JUNE/30/2024

PAYMENT DATE: **06/28/2024**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	220.00	12,965.95	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		298.12	
1602	100% Overtime	5.50	648.34	
1603	55% Overtime	9.11	832.26	
1799	Reduced Hours	0.07	4.13	
1800	Night Shift Differential (20%)	0.50	5.89	
3039	Housing Allowance		2,593.19	
2821	Mid-Month Salary Advance			5,186.38
3531	Unimed Health Plan Co-payment			34.50
3579	PreviSiemens CD I			139.40
3580	PreviSiemens CD II			419.72
4303	Unimed SP – Employee			72.00
4304	Unimed SP – Dependent			72.00
5500	Income Tax Withheld			3,470.98
5560	Social Security (INSS)			908.85
7655	Meal Voucher			220.00
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			15,879.91
5561	INSS Contribution Base			7,786.02
8000	Contribution Salary			17,347.88
8002	Salary Contribution – Taxable Basis			17,347.88
1300	FGTS Base – Current Month Remuneration			17,347.88
1330	FGTS Base			1,387.83
8010	Employee INSS Contribution Salary			17,347.88
8100	Employer INSS Contribution	20.00		3,469.58
8101	Occupational Accident Insurance (RAT)			86.74

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	17,347.88	**10,523.83**	**6,824.05**

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FGTS - Length-of-Service Guarantee Fund

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: July 31, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	12.965,95/MES	30/JUNHO/2024

DATA DE PAGAMENTO: ***28/06/2024***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	220,00	12.965,95	
0502 DSR (H.E./Adic.Not.)		298,12	
1602 Horas Extras - 100%	5,50	648,34	
1603 Horas Extras 55%	9,11	832,26	
1799 Horas Reduzidas	0,07	4,13	
1800 Adicional Noturno 20%	0,50	5,89	
4597 Ajuda Moradia %		2.593,19	
2821 Adiant Quinzenal			5.186,38
3531 CO-PARTICIP. PLANO UNIMED			34,50
3579 PreviSiemens CD I			139,40
3580 PreviSiemens CD II			419,72
4303 UNIMED SP EMPREGAJDO			72,00
4304 UNIMED SP DEPENDENTE			72,00
5500 IR Retido			3.470,98
5560 INSS			908,85
7655 Vale Refeição			220,00
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			15.879,91
5561 Base INSS			7.786,02
8000 Salario Contribuicao			17.347,88
8002 Contribuição - Trib. Salário			17.347,88
1300 Base FGTS RecMes - Remun			17.347,88
1330 FGTS RecMes - Remun			1.387,83
8010 Salário Contribuição INSS Empregado			17.347,88
8100 Inss Empregador	20,00		3.469,58
8101 RAT			86,74

T O T A I S	VENCIMENTOS	DESCONTOS	LÍQUIDO
	17.347,88	10.523,83	6.824,05

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PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	12,965.95 / MONTH	MAY/31/2024

PAYMENT DATE: **05/31/2024**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	183.33	10,804.76	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		1,138.63	
0842	Medical Leave (Subject to INSS Contributions)	36.67	2,161.19	
1601	75% Overtime	13.81	1,424.43	
1602	100% Overtime	12.73	1,500.61	
1603	55% Overtime	20.00	1,827.14	
1799	Reduced Hours	0.21	12.38	
1800	Night Shift Differential (20%)	1.50	17.6	
3046	Optical Benefit – Eyeglass Frames		988.40	
3047	Optical Benefit – Lenses		1,129.60	
4597	Housing Allowance		2,593.19	
2821	Mid-Month Salary Advance			5,186.38
3579	PreviSiemens CD I			139.40
3580	PreviSiemens CD II			419.72
4303	Unimed SP – Employee			72.00
4304	Unimed SP – Dependent			72.00
5500	Income Tax Withheld			5,189.76
5560	Social Security (INSS)			908.85
7655	Meal Voucher			220.00
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			22,130.04
5561	INSS Contribution Base			7,786.02
8000	Contribution Salary			21,480.01
8002	Salary Contribution – Taxable Basis			21,480.01
1300	FGTS Base – Current Month Remuneration			21,480.01
1330	FGTS Base			1,718.40
8010	Employee INSS Contribution Salary			21,480.01
8100	Employer INSS Contribution	20.00		4,296.00
8101	Occupational Accident Insurance (RAT)			107.40

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	23,598.01	**12,208.11**	**11,389.90**

3324 / 469 ACQR59 05/23/2024 – 10:24:43 AM

FGTS - Length-of-Service Guarantee Fund

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Date: July 31, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	12.965,95/MES	31/MAIO/2024

DATA DE PAGAMENTO: ***31/05/2024***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	183,33	10.804,76	
0502 DSR (H.E./Adic.Not.)		1.138,63	
0842 Atestado Médico (Incidência INSS)	36,67	2.161,19	
1601 Horas Extras - 75%	13,81	1.424,43	
1602 Horas Extras - 100%	12,73	1.500,61	
1603 Horas Extras 55%	20,00	1.827,14	
1799 Horas Reduzidas	0,21	12,38	
1800 Adicional Noturno 20%	1,50	17,68	
3046 Auxílio Ótico - Armação		988,40	
3047 Auxílio Ótico - Lentes		1.129,60	
4597 Ajuda Moradia %		2.593,19	
2821 Adiant Quinzenal			5.186,38
3579 PreviSiemens CD I			139,40
3580 PreviSiemens CD II			419,72
4303 UNIMED SP EMPREGAJDO			72,00
4304 UNIMED SP DEPENDENTE			72,00
5500 IR Retido			5.189,76
5560 INSS			908,85
7655 Vale Refeição			220,00
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			22.130,04
5561 Base INSS			7.786,02
8000 Salario Contribuicao			21.480,01
8002 Contribuição - Trib. Salário			21.480,01
1300 Base FGTS RecMes - Remun			21.480,01
1330 FGTS RecMes - Remun			1.718,40
8010 Salário Contribuição INSS Empregado			21.480,01
8100 Inss Empregador	20,00		4.296,00
8101 RAT			107,40

	VENCIMENTOS	DESCONTOS	LÍQUIDO
T O T A I S	23.598,01	12.208,11	11.389,90

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PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	12,965.95 / MONTH	MARCH/31/2024

PAYMENT DATE: **03/28/2024**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	220.00	12,965.95	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		615.31	
1601	75% Overtime	6.51	671.47	
1603	55% Overtime	20.00	1,827.14	
1799	Reduced Hours	0.46	27.11	
1800	Night Shift Differential (20%)	3.23	38.08	
3039	Housing Allowance		2,427.62	
4597	Housing Allowance %		2,593.19	
2821	Mid-Month Salary Advance			5,186.38
3579	PreviSiemens CD I			139.40
3580	PreviSiemens CD II			419.72
4303	Unimed SP – Employee			72.00
4304	Unimed SP – Dependent			72.00
5500	Income Tax Withheld			4,520.92
5560	Social Security (INSS)			908.85
7655	Meal Voucher			220.00
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			19,697.90
5561	INSS Contribution Base			7,786.02
8000	Contribution Salary			21,165.87
8002	Salary Contribution – Taxable Basis			21,165.87
1300	FGTS Base – Current Month Remuneration			21,165.87
1330	FGTS Base			1,693.26
8010	Employee INSS Contribution Salary			21,165.87
8100	Employer INSS Contribution	20.00		4,233.17
8101	Occupational Accident Insurance (RAT)			105.83

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	21,165.87	**11,539.27**	**9,626.60**

3324 / 469 ACQR59 03/22/2024 – 5:15:07 PM

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FGTS - Length-of-Service Guarantee Fund

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Date: July 31, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	12.965,95/MES	31/MARCO/2024

DATA DE PAGAMENTO: ***28/03/2024***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	220,00	12.965,95	
0502 DSR (H.E./Adic.Not.)		615,31	
1601 Horas Extras - 75%	6,51	671,47	
1603 Horas Extras 55%	20,00	1.827,14	
1799 Horas Reduzidas	0,46	27,11	
1800 Adicional Noturno 20%	3,23	38,08	
3039 Ajuda Moradia		2.427,62	
4597 Ajuda Moradia %		2.593,19	
2821 Adiant Quinzenal			5.186,38
3579 PreviSiemens CD I			139,40
3580 PreviSiemens CD II			419,72
4303 UNIMED SP EMPREGAJDO			72,00
4304 UNIMED SP DEPENDENTE			72,00
5500 IR Retido			4.520,92
5560 INSS			908,85
7655 Vale Refeição			220,00
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			19.697,90
5561 Base INSS			7.786,02
8000 Salario Contribuicao			21.165,87
8002 Contribuição - Trib. Salário			21.165,87
1300 Base FGTS RecMes - Remun			21.165,87
1330 FGTS RecMes - Remun			1.693,26
8010 Salário Contribuição INSS Empregado			21.165,87
8100 Inss Empregador	20,00		4.233,17
8101 RAT			105,83

T O T A I S	VENCIMENTOS	DESCONTOS	LÍQUIDO
	21.165,87	11.539,27	9.626,60

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PAYSLIP

COMPANY	CNPJ	PAGE
Siemens Healthcare Diagnósticos Ltda.	01.449.930/0010-80	1

BRANCH	EMPLOYEE ID	NAME	POSITION	DEP.	CHILDREN
0010	33053578	JULIO CONFORTO	TECHNICAL SUPPORT ENGINEER – SHS	00	00

EMPLOYEE REGISTRATION NO.	BANK	BRANCH	ACCOUNT	SALARY	REFERENCE
80920208.1.03	341	318	000011696-9	12,965.95 / MONTH	SEPTEMBER/30/2024

PAYMENT DATE: **09/30/2024**

	ACCOUNT	QTY	EARNINGS	DEDUCTIONS
0010	Base Salary	154.00	9,076.16	
0502	Weekly Paid Rest (Overtime/Night Shift Differential)		27.26	
0591	1/3 Vacation Bonus (Constitutional)		1,467.01	
1603	55% Overtime	1.79	163.53	
2751	Average Vacation Pay		511.24	
2761	Vacation Pay (Current Month)	9.00	3,889.79	
3039	Housing Allowance		2,593.19	
2821	Mid-Month Salary Advance			5,186.38
3531	Unimed Health Plan Co-payment			34.50
3579	PreviSiemens CD I			139.40
3580	PreviSiemens CD II			419.72
4303	Unimed SP – Employee			72.00
4304	Unimed SP – Dependent			72.00
5500	Income Tax Withheld			2,365.36
5560	Social Security (INSS)			499.87
5580	INSS on Vacation Pay			408.98
7621	Income Tax on Vacation Pay			1,098.04
7655	Meal Voucher			220.00
9953	Net Vacation Pay			4,361.02
	----- ---- BASES / OTHER ----- ----	---------	----------	----------
5501	Income Tax Base			11,859.49
5561	INSS Contribution Base			1,917.98
5581	INSS Contribution Base – Vacation Pay			5,868.04
7521	Income Tax Base – Vacation Pay			5,459.05
8000	Contribution Salary			17,728.18
8002	Salary Contribution – Taxable Basis			17,728.18
1300	FGTS Base – Current Month Remuneration			17,728.18
1330	FGTS Base			1,418.25
8010	Employee INSS Contribution Salary			17,728.18
8100	Employer INSS Contribution	20.00		3,545.64
8101	Occupational Accident Insurance (RAT)			88.64

FGTS - Length-of-Service Guarantee Fund

TOTALS	EARNINGS	DEDUCTIONS	NET PAY
	17,728.18	**14,877.27**	**2,850.91**

3324 / 469 ACQR59 09/20/2024 – 11:01:15 PM

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: August 3, 2026

Demonstrativo de Pagamento

EMPRESA	C.N.P.J	FOL
Siemens Healthcare Diagnósticos Ltda	01.449.930/0010-80	1

ESTAB	MATRÍCULA	NOME	FUNÇÃO	DEP	FILH
0010	33053578	JULIO CONFORTO	ENGENHEIRO ASSIST TECNICA PL SHS	00	00

C.R.	BCO	AG	CONTA	SALÁRIO	REFERÊNCIA
80920208.1.03	341	318	000011696-9	12.965,95/MES	30/SETEMBRO/2024

DATA DE PAGAMENTO: ***30/09/2024***

CONTA	QTDE.	VENCIMENTOS	DESCONTOS
0010 Salário Base	154,00	9.076,16	
0502 DSR (H.E./Adic.Not.)		27,26	
0591 1/3 Adic Const Fer		1.467,01	
1603 Horas Extras 55%	1,79	163,53	
2751 Media Férias		511,24	
2761 Férias no Mês	9,00	3.889,79	
4597 Ajuda Moradia %		2.593,19	
2821 Adiant Quinzenal			5.186,38
3531 CO-PARTICIP. PLANO UNIMED			34,50
3579 PreviSiemens CD I			139,40
3580 PreviSiemens CD II			419,72
4303 UNIMED SP EMPREGAJDO			72,00
4304 UNIMED SP DEPENDENTE			72,00
5500 IR Retido			2.365,36
5560 INSS			499,87
5580 INSS de Ferias			408,98
7621 IR Férias			1.098,04
7655 Vale Refeição			220,00
9953 Líquido Férias			4.361,02
---- -----BASE/OUTROS----- ----	-----	----------	----------
5501 Base IR			11.859,49
5561 Base INSS			1.917,98
5581 Base INSS Ferias			5.868,04
7521 Base IR Ferias			5.459,05
8000 Salario Contribuicao			17.728,18
8002 Contribuição - Trib. Salário			17.728,18
1300 Base FGTS RecMes - Remun			17.728,18
1330 FGTS RecMes - Remun			1.418,25
8010 Salário Contribuição INSS Empregado			17.728,18
8100 Inss Empregador	20,00		3.545,64
8101 RAT			88,64

	VENCIMENTOS	DESCONTOS	LÍQUIDO
T O T A I S	17.728,18	14.877,27	2.850,91

ADPweb recursos humanos

3324 / 469 ACQR59 20/09/2024 23:01:15

e Calculation [1]

	GID:	Current Department:	Current Location:	Current Manager:
JULIO	Z003B8DE	SHS AM LAM CS BRA STH	CUR MD	DE OLIVEIRA, M NEVES

nformation

	End Date:	Department:	Location:	Manager:
	Sep 30, 2024	SHS AM LAM CS BRA SE STH	CUR MD	DE OLIVEIRA, M NEVES

erformance

	Metrics	Weighting of Target	Value for 0.0%	Value for 100.0%	Value for 200.0%	Achieved	
						Actual Value	Percentage
thineers - Adjusted basic Earnings Per Share (Incentive relevant)	EUR	50.00%	1.65	2.20	2.75	2.32	121.82%
- Weighted Zone Business Area Comparable revenue growth (Incentive relevant)	%	50.00%	0.00	100.00	200.00	0.00	0.00%

100%	Achievement of Company Performance in %	60.91%
	Total Target Achievement in %	60.91%
	Annual Target Incentive Amount in BRL	15,559.14

Results for the review period

Target Incentive Amount in BRL (possibly pro-rated)	15,559.14
Total Calculated Payout Amount in BRL [2]	9,477.07

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Evaluation

Hiring companies can find you

Followed companies

Stay up to date with all opportunities and insider tips by following your dream companies.

Search companies

Job searches

No title
0 job openings

View all job listing activity

Salaries for Technical Support Engineer

Salaries | Interviews

Technical Support Engineer Salaries (Brazil)

Experience

All experience levels

Base Salary

R$ 7k - R$ 10k/month

R$ 9k/month Average base salary

Variable Compensation

R$ 979 /month – Average
R$ 604 – R$ 1k /month – Range

About our data

Very high confidence

Last updated: Aug 2, 2025 17 salaries submitted

How do we calculate compensation?

How does the average base salary range of R$ 7k–R$ 1k/month look to you?

Low

Accurate

High

Your contribution helps Glassdoor refine our salary estimates over time.

Top Companies for Technical Support Engineer – Brazil

Search by company or location

23 top companies for the .... Sort by: **Most Popular....**

Siemens Healthineers 4 ★

R$ 6k– R$ 10k /month Total pay
R$ 8k Average
Technical Support Engineer

1k open position(s)

Siemens 4.1 ★

R$ 7k– R$ 11k /month Total pay
R$ 9k Average
Technical Support Engineer

5k open position(s)

Usiminas 3.8 ★

R$ 2k– R$ 11k /month Total pay
R$ 7k Average
Technical Support Engineer

10 open position(s)

Siemens Energy 4.4 ★

R$ 8k– R$ 9k /month Total pay
R$ 8k Average
Technical Support Engineer

2k open position(s)

Siemens Energy 4.4 ★

R$ 12k– R$ 13k /month Total pay

R$ 12k Average

Technical Support Engineer

2k open position(s)

1 2 3 4 5 >

Showing 1–5 of 23 results

Recent Salaries Shared by Professionals in the Technical Support Engineer ⓘ

Location

All experience levels....

15 salaries

Sort by newest

Position | Years of Experience **Total Compensation** ⓘ

Location
Submission date

Base Salary - Variable Compensation

Technical Support Engineer
7–9 years
Macaé

R$ 100k / year
R$ 100k - R$ 0

Submitted on Feb 23, 2026

Technical Support Engineer
1–3 years
Macaé

R$ 144k / year
R$ 132k - R$ 12k

Submitted on Sep 18, 2025

Technical Support Engineer
4–6 years
Jundiaí, SP

R$ 145k / year
R$ 116k - R$ 29k

Submitted on Aug 2, 2025

Technical Support Engineer
4–6 years
Jundiaí, SP

R$ 132k / year
R$ 121k - R$11k

Submitted on May 20, 2025

Technical Support Engineer
4–6 years
São Paulo, SP

R$ 125k / year
R$ 120k - R$5k

Submitted on May 14, 2025

Share your salary confidentially and help the community.

Add Salary

Technical Support Engineer
10–14 years
Recife, PE

R$ 140k / year
R$ 126k - R$14k

Submitted on Nov 20, 2024

Technical Support Engineer
10–14 years
Recife, PE

R$ 137k / year
R$ 124k - R$13k

Submitted on Aug 3, 2023

Technical Support Engineer
4–6 years
Salvador, BA

R$ 10k / year
R$ 10k - R$0

Submitted on May 14, 2023

Technical Support Engineer
4–6 years
Ipatinga, MG

R$ 25k - R$ 29k / year

Submitted on Dec 4, 2022

Technical Support Engineer
4–6 years
Salvador, BA

R$ 91k - 105k / year

Submitted on Mar 22, 2022

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: July 29, 2026

CG
CAROLINA GRAZZIOTIN
Sao Jose
Avaliação

Empresas contratantes podem encontrar você

Empresas seguidas

Fique por dentro de todas as oportunidades e dicas internas seguindo as empresas de seus sonhos.

Buscar empresas

Buscas de vagas

non title
0 vagas

Ver todas as atividades de vagas

Salários de Engenheiro De Assistencia Tecnica Pleno

Salários | Entrevistas

Salários de Engenheiro De Assistencia Tecnica Pleno (Brasil)

Experiência

Todos os anos de experiência

Salário base

R$ 7 mil - R$ 10 mil/mês

R$ 9 mil/mês Salário base médio

Remuneração variável

R$ 979/mês Média
R$ 604 - R$ 1 mil/mês Faixa

Sobre nossos dados

Confiança muito alta
Última atualização: 2 de ago. de 2025 · 17 salários enviados

Como calculamos a remuneração?

Como lhe parece a **faixa de salário base médio** de **R$ 7 mil-R$ 10 mil/mês**?

Baixa

Precisa

Alta

Sua contribuição ajuda o Glassdoor a refinar nossas estimativas de salários com o tempo.

Empresas em alta para Engenheiro De Assistencia Tecnica Pleno — Brasil ⓘ

Busque por empresa ou localização

23 Empresas em alta para va... Ordenar por **popular...**

Siemens Healthineers 4 ★

R$ 6 mil - R$ 10 mil/mês Pagamento total

R$ 8 mil Médio

Engenheiro De Assistência Técnica Pleno

1 mil vaga(s) aberta(s)

Siemens 4.1 ★

R$ 7 mil - R$ 11 mil/mês Pagamento total

R$ 9 mil Médio

Engenheiro De Assistência Técnica Pleno

5 mil vaga(s) aberta(s)

Usiminas 3.8 ★

R$ 2 mil - R$ 11 mil/mês Pagamento total

R$ 7 mil Médio

Engenheiro De Assistência Técnica Pleno

10 vaga(s) aberta(s)

Siemens Energy 4.4 ★

R$ 8 mil - R$ 9 mil/mês Pagamento total

R$ 8 mil Médio

Engenheiro De Assistência Técnica Pleno

2 mil vaga(s) aberta(s)

Siemens Energy 4.4 ★

R$ 12 mil - R$ 13 mil/mês Pagamento total

R$ 12 mil Médio

Engenheiro De Assistência Técnica Pleno

2 mil vaga(s) aberta(s)

< 1 2 3 4 5 >

Mostrando 1 - 5 de 23 resultados

Salários recentes compartilhados por profissionais do cargo de Engenheiro De Assistência Técnica Pleno ⓘ

Localização

Todos os anos de exper…

15 salários

Ordenar por **mais re**…

Cargo | Anos de experiência Localização Data de envio	Pagamento total ⓘ Base · Remuneração variável
Engenheiro De Assistência Técni… **7 a 9 anos** Macaé Data de envio: 23 de fev. de 2026	**R$ 100 mil/ano** R$ 100 mil · R$ 0
Engenheiro De Assistência Técn… **1 a 3 anos** Macaé Data de envio: 18 de set. de 2025	**R$ 144 mil/ano** R$ 132 mil · R$ 12 mil
Engenheiro De Assistência Técn… **4 a 6 anos** Jundiaí, SP Data de envio: 2 de ago. de 2025	**R$ 145 mil/ano** R$ 116 mil · R$ 29 mil
Engenheiro De Assistência Técni… **4 a 6 anos** Jundiaí, SP	**R$ 132 mil/ano** R$ 121 mil · R$ 11 mil

Data de envio: 20 de mai. de 2025

Engenheiro De Assistência Técni... **R$ 125 mil/ano**
4 a 6 anos R$ 120 mil · R$ 5 mil
São Paulo, SP
Data de envio: 14 de mai. de 2025

Compartilhe seu salário em sigilo e ajude a comunidade. **Adicionar salário**

Engenheiro De Assistência Técn... **R$ 140 mil/ano**
10 a 14 anos R$ 126 mil · R$ 14 mil
Recife, PE
Data de envio: 20 de nov. de 2024

Engenheiro De Assistência Técn... **R$ 137 mil/ano**
10 a 14 anos R$ 124 mil · R$ 13 mil
Recife, PE
Data de envio: 3 de ago. de 2023

Engenheiro De Assistência Técnic... **R$ 10 mil/ano**
4 a 6 anos R$ 10 mil · R$ 0
Salvador, BA
Data de envio: 14 de mai. de 2023

Engenheiro De Assis... **R$ 25 mil - R$ 29 mil/ano**
4 a 6 anos
Ipatinga, MG
Data de envio: 4 de dez. de 2022

Engenheiro De Assis... **R$ 91 mil - R$ 105 mil/ano**
4 a 6 anos
Salvador, BA
Data de envio: 22 de mar. de 2022

'GLASSDOOR'

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Sao Jose

Avaliação

Hiring companies can find you

Followed companies

Stay up to date with all opportunities and insider tips by following your dream companies.

Search companies

Job searches

No title

0 job openings

View all job listing activity

Customer Service Engineer Salaries

Salaries Interviews

Customer Service Engineer Salaries

Experience

All experience levels

Base Salary

US$ 56k - US$ 85k /year

US$ 69k/year Average base salary

Variable Compensation

US$ 16K /year – Average

US$ 12K – R$ 23k /year – Range

About our data

Reliable Last updated: Apr 10, 2025

46 salaries submitted

How do we calculate compensation?

How does the average base salary range of US$ 56k–US$ 85k/ year look to you?

Low

Accurate

High

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Date: July 29, 2026

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Sao Jose
Avaliação

Empresas contratantes podem encontrar você

Empresas seguidas

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Buscar empresas

Buscas de vagas

non title
0 vagas

Ver todas as atividades de vagas

Salários de Customer Service Engineer Iii

Salários | Entrevistas

Salários de Customer Service Engineer Iii

Experiência

Todos os anos de experiência

Salário base

US$ 56 mil - US$ 85 mil/ano

US$ 69 mil/ano Salário base médio

Remuneração variável

US$ 16 mil/ano Média
US$ 12 mil - US$ 23 mil/ano Faixa

Sobre nossos dados

Confiável · Última atualização: 10 de abr. de 2025 ·
46 salários enviados

Como calculamos a remuneração?

Como lhe parece a **faixa de salário base médio** de **US$ 56 mil-US$ 85 mil/ano**?

Baixa

Precisa

Alta

Earning Statements | Year End Forms

From: 12/4/2024 To: 1/4/2026

8 Statement Found

Earning Statement	Pay Date	Type	Net Pay
December 2025			
Siemens Medical Solutions USA, Inc. - #167251880	12/5/2025	Additional	$0.00
Siemens Medical Solutions USA, Inc. - #167247842	12/5/2025	Normal	$3,751.60
November 2025			
October 2025			
September 2025			

Statement

SIEMENS Healthineers

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Apt 230 Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	12/5/2025
Pay Period:	11/17/2025 - 11/30/2025
Deposit Advice #:	167247842
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

	Current 11/17/2025 - 11/30/2025			YTD As of 11/30/2025	
	Hours/Units	**Rate**	**Amount**	**Hours/Units**	**Amount**
Earnings	**123.0000**		**$4,857.06**	**607.5000**	**$24,907.30**
Regular	72.0000	43.2700	$3,115.44	472.0000	$20,423.44
Holiday	8.0000	43.2700	$346.16	8.0000	$346.16
Overtime	21.5000	43.2700	$930.31	63.7500	$2,758.48
OT Prem .5X	21.5000	21.6350	$465.15	63.7500	$1,379.22
Taxable Benefits			**$3.70**		**$14.80**
US Total Imputed Income			$1.51		$6.04
US Aflac			$2.19		$8.76
Memo Information					**$200.00**
US HSA Employer Contribution					$200.00
Pre-Tax Deductions			**$149.45**		**$537.80**
MEDPTX			$98.80		$395.20
DENTAL PTX			$20.65		$82.60
HSA Employee			$30.00		$60.00
Taxes			**$657.36**		**$6,322.85**
Fed W/H			$716.78		$3,439.49
FICA EE			$292.10		$1,511.83
Fed MWT EE			$68.31		$353.57
MI W/H			$200.17		$888.96
NC W/H			($620.00)		$129.00
Post-Tax Deductions			**$298.65**		**$1,107.96**
ROTH ATX			$291.42		$1,079.04
PERS ACC INS			$4.62		$18.48
LIFE INS ATX			$2.52		$10.08
LIFE INS SPOUSE			$0.09		$0.36
Reimbursements					**$2,628.78**
EFT Replace					$2,628.78
	Routing #	**Account #**	**Amount**		**Amount**
Net Pay			**$3,751.60**		**$19,567.47**
Direct Deposit	072000096	XXXXXX9246	$3,751.60		

Accruals & Balances	
PTO Balance:	55.38 Hours
Floating Holiday Balance:	24.00 Hours



Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Apt 230 Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	12/5/2025
Pay Period:	11/17/2025 - 11/30/2025
Deposit Advice #:	167247842
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

Supplemental Earnings Statement

Earnings	Begin Date	End Date	Hours/Units	Rate	Amount
Regular	11/17/2025	11/23/2025	40.0000	43.2700	$1,730.80
Regular	11/24/2025	11/30/2025	32.0000	43.2700	$1,384.64
Holiday	11/24/2025	11/30/2025	8.0000	43.2700	$346.16
Overtime	11/17/2025	11/23/2025	9.7500	43.2700	$421.88
Overtime	11/24/2025	11/30/2025	11.7500	43.2700	$508.43
OT Prem .5X	11/17/2025	11/23/2025	9.7500	21.6350	$210.94
OT Prem .5X	11/24/2025	11/30/2025	11.7500	21.6350	$254.21
US Total Imputed Income	11/17/2025	11/30/2025			$1.51
US Aflac	11/17/2025	11/30/2025			$2.19
Total Hours Paid			**123.0000**		

SIEMENS Healthineers

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Apt 230 Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	12/19/2025
Pay Period:	12/1/2025 - 12/14/2025
Deposit Advice #:	175446010
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)

	Current 12/1/2025 - 12/14/2025			YTD As of 12/14/2025	
	Hours/Units	**Rate**	**Amount**	**Hours/Units**	**Amount**
Earnings	**205.0000**		**$7,151.71**	**812.5000**	**$39,302.39**
Regular	80.0000	43.2700	$3,461.60	552.0000	$23,885.04
Holiday				8.0000	$346.16
Overtime	40.2500	43.2700	$1,741.62	104.0000	$4,500.10
OT Prem .5X	20.2500	21.6350	$438.11	104.0000	$2,354.14
OT Prem .5X	20.0000	26.8404	$536.81		
Double Time	6.5000	86.5400	$562.51	6.5000	$562.51
STANDBY25%	38.0000	10.8175	$411.06	38.0000	$411.06
USGURELOCATION					$6,850.20
USANNUALBONUS					$393.18
Taxable Benefits			**$3.70**		**$13,375.40**
US Total Imputed Income			$1.51		$7.55
US Critical Ill			$2.19		$10.95
US GSS Relo TXB					$13,356.90
Memo Information					**$200.00**
US HSA Employer Contribution					$200.00
Pre-Tax Deductions			**$149.45**		**$687.25**
MEDPTX			$98.80		$494.00
DENTAL PTX			$20.65		$103.25
HSA Employee			$30.00		$90.00
Taxes			**$2,101.13**		**$15,407.47**
Fed W/H			$1,267.49		$9,239.04
FICA EE			$434.36		$3,223.41
Fed MWT EE			$101.59		$753.86
MI W/H			$297.69		$2,062.16
NC W/H					$129.00
Post-Tax Deductions			**$436.33**		**$1,567.88**
ROTH ATX			$429.10		$1,531.73
PERS ACC INS			$4.62		$23.10
LIFE INS ATX			$2.52		$12.60
LIFE INS SPOUSE			$0.09		$0.45
Reimbursements					**$2,628.78**
EFT Replace					$2,628.78
	Routing #	**Account #**	**Amount**		**Amount**
Net Pay			**$4,464.80**		**$24,268.57**
Direct Deposit	072000096	XXXXXX9246	$4,464.80		

Accruals & Balances

PTO Balance:	64.62 Hours
Floating Holiday Balance:	24.00 Hours

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Apt 230 Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	12/19/2025
Pay Period:	12/1/2025 - 12/14/2025
Deposit Advice #:	175446010
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)

Supplemental Earnings Statement

Earnings	Begin Date	End Date	Hours/Units	Rate	Amount
Regular	12/1/2025	12/7/2025	40.0000	43.2700	$1,730.80
Regular	12/8/2025	12/14/2025	40.0000	43.2700	$1,730.80
Overtime	12/1/2025	12/7/2025	20.2500	43.2700	$876.22
Overtime	12/8/2025	12/14/2025	20.0000	43.2700	$865.40
OT Prem .5X	12/1/2025	12/7/2025	20.2500	21.6350	$438.11
OT Prem .5X	12/8/2025	12/14/2025	20.0000	26.8404	$536.81
Double Time	12/8/2025	12/14/2025	6.5000	86.5400	$562.51
STANDBY25%	12/8/2025	12/14/2025	38.0000	10.8175	$411.06
US Total Imputed Income	12/1/2025	12/14/2025			$1.51
US Critical Ill	12/1/2025	12/14/2025			$2.19
Total Hours Paid			**205.0000**		

SIEMENS Healthineers

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	11/7/2025
Pay Period:	10/20/2025 - 11/2/2025
Deposit Advice #:	152029854
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

	Current 10/20/2025 - 11/2/2025			YTD As of 11/2/2025	
	Hours/Units	**Rate**	**Amount**	**Hours/Units**	**Amount**
Earnings	**99.0000**		**$4,078.20**	**353.5000**	**$14,933.56**
Regular	80.0000	43.2700	$3,461.60	320.0000	$13,846.40
Overtime	9.5000	43.2700	$411.07	16.7500	$724.78
OT Prem .5X	9.5000	21.6350	$205.53	16.7500	$362.38
Taxable Benefits			**$3.70**		**$7.40**
US Total Imputed Income			$1.51		$3.02
US Aflac			$2.19		$4.38
Pre-Tax Deductions			**$119.45**		**$238.90**
MEDPTX			$98.80		$197.60
DENTAL PTX			$20.65		$41.30
Taxes			**$1,171.34**		**$4,099.93**
Fed W/H			$548.87		$1,943.63
FICA EE			$245.67		$911.53
Fed MWT EE			$57.46		$213.18
MI W/H			$168.34		$477.59
NC W/H			$151.00		$554.00
Post-Tax Deductions			**$251.92**		**$495.08**
ROTH ATX			$244.69		$480.62
PERS ACC INS			$4.62		$9.24
LIFE INS ATX			$2.52		$5.04
LIFE INS SPOUSE			$0.09		$0.18
Reimbursements					**$2,628.78**
EFT Replace					$2,628.78
	Routing #	**Account #**	**Amount**		**Amount**
Net Pay			**$2,535.49**		**$12,728.43**
Direct Deposit	072000096	XXXXXX9246	$2,535.49		

Accruals & Balances	
PTO Balance:	36.92 Hours
Floating Holiday Balance:	24.00 Hours

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	11/7/2025
Pay Period:	10/20/2025 - 11/2/2025
Deposit Advice #:	152029854
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

Supplemental Earnings Statement

Earnings	Begin Date	End Date	Hours/Units	Rate	Amount
Regular	10/20/2025	10/26/2025	40.0000	43.2700	$1,730.80
Regular	10/27/2025	11/2/2025	40.0000	43.2700	$1,730.80
Overtime	10/20/2025	10/26/2025	3.2500	43.2700	$140.63
Overtime	10/27/2025	11/2/2025	6.2500	43.2700	$270.44
OT Prem .5X	10/20/2025	10/26/2025	3.2500	21.6350	$70.31
OT Prem .5X	10/27/2025	11/2/2025	6.2500	21.6350	$135.22
US Total Imputed Income	10/20/2025	11/2/2025			$1.51
US Aflac	10/20/2025	11/2/2025			$2.19
Total Hours Paid			**99.0000**		

SIEMENS Healthineers

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	11/21/2025
Pay Period:	11/3/2025 - 11/16/2025
Deposit Advice #:	159627280
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

	Current 11/3/2025 - 11/16/2025			YTD As of 11/16/2025	
	Hours/Units	**Rate**	**Amount**	**Hours/Units**	**Amount**
Earnings	**131.0000**		**$5,116.68**	**484.5000**	**$20,050.24**
Regular	80.0000	43.2700	$3,461.60	400.0000	$17,308.00
Overtime	25.5000	43.2700	$1,103.39	42.2500	$1,828.17
OT Prem .5X	25.5000	21.6350	$551.69	42.2500	$914.07
Taxable Benefits			**$3.70**		**$11.10**
US Total Imputed Income			$1.51		$4.53
US Aflac			$2.19		$6.57
Memo Information			**$200.00**		**$200.00**
US HSA Employer Contribution			$200.00		$200.00
Pre-Tax Deductions			**$149.45**		**$388.35**
MEDPTX			$98.80		$296.40
DENTAL PTX			$20.65		$61.95
HSA Employee			$30.00		$30.00
Taxes			**$1,565.56**		**$5,665.49**
Fed W/H			$779.08		$2,722.71
FICA EE			$308.20		$1,219.73
Fed MWT EE			$72.08		$285.26
MI W/H			$211.20		$688.79
NC W/H			$195.00		$749.00
Post-Tax Deductions			**$314.23**		**$809.31**
ROTH ATX			$307.00		$787.62
PERS ACC INS			$4.62		$13.86
LIFE INS ATX			$2.52		$7.56
LIFE INS SPOUSE			$0.09		$0.27
Reimbursements					**$2,628.78**
EFT Replace					$2,628.78
	Routing #	**Account #**	**Amount**		**Amount**
Net Pay			**$3,087.44**		**$15,815.87**
Direct Deposit	072000096	XXXXXX9246	$3,087.44		

Accruals & Balances	
PTO Balance:	46.15 Hours
Floating Holiday Balance:	24.00 Hours

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	11/21/2025
Pay Period:	11/3/2025 - 11/16/2025
Deposit Advice #:	159627280
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

Supplemental Earnings Statement

Earnings	Begin Date	End Date	Hours/Units	Rate	Amount
Regular	11/3/2025	11/9/2025	40.0000	43.2700	$1,730.80
Regular	11/10/2025	11/16/2025	40.0000	43.2700	$1,730.80
Overtime	11/3/2025	11/9/2025	6.7500	43.2700	$292.07
Overtime	11/10/2025	11/16/2025	18.7500	43.2700	$811.32
OT Prem .5X	11/3/2025	11/9/2025	6.7500	21.6350	$146.04
OT Prem .5X	11/10/2025	11/16/2025	18.7500	21.6350	$405.65
US HSA Employer Contribution	11/3/2025	11/16/2025			$200.00
US Total Imputed Income	11/3/2025	11/16/2025			$1.51
US Aflac	11/3/2025	11/16/2025			$2.19
Total Hours Paid			**131.0000**		

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	10/10/2025
Pay Period:	9/22/2025 - 10/5/2025
Deposit Advice #:	137404956
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

	Current 9/22/2025 - 10/5/2025			YTD As of 10/5/2025	
	Hours/Units	**Rate**	**Amount**	**Hours/Units**	**Amount**
Earnings	**80.0000**		**$3,461.60**	**160.0000**	**$6,923.20**
Regular	80.0000	43.2700	$3,461.60	160.0000	$6,923.20
Taxes			**$979.95**		**$1,812.77**
Fed W/H			$439.01		$878.02
FICA EE			$214.62		$429.24
Fed MWT EE			$50.20		$100.39
MI W/H			$147.12		$147.12
NC W/H			$129.00		$258.00
	Routing #	**Account #**	**Amount**		**Amount**
Net Pay			**$2,481.65**		**$5,110.43**
Direct Deposit	072000096	XXXXXX9246	$2,481.65		

Accruals & Balances	
PTO Balance:	18.46 Hours
Floating Holiday Balance:	24.00 Hours

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	10/10/2025
Pay Period:	9/22/2025 - 10/5/2025
Deposit Advice #:	137404956
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

Supplemental Earnings Statement

Earnings	Begin Date	End Date	Hours/Units	Rate	Amount
Regular	9/22/2025	9/28/2025	40.0000	43.2700	$1,730.80
Regular	9/29/2025	10/5/2025	40.0000	43.2700	$1,730.80
Total Hours Paid			**80.0000**		

SIEMENS Healthineers

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	10/24/2025
Pay Period:	10/6/2025 - 10/19/2025
Deposit Advice #:	145090729
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

	Current 10/6/2025 - 10/19/2025			YTD As of 10/19/2025	
	Hours/Units	**Rate**	**Amount**	**Hours/Units**	**Amount**
Earnings	**94.5000**		**$3,932.16**	**254.5000**	**$10,855.36**
Regular	80.0000	43.2700	$3,461.60	240.0000	$10,384.80
Overtime	7.2500	43.2700	$313.71	7.2500	$313.71
OT Prem .5X	7.2500	21.6350	$156.85	7.2500	$156.85
Taxable Benefits			**$3.70**		**$3.70**
US Total Imputed Income			$1.51		$1.51
US Aflac			$2.19		$2.19
Pre-Tax Deductions			**$119.45**		**$119.45**
MEDPTX			$98.80		$98.80
DENTAL PTX			$20.65		$20.65
Taxes			**$1,115.82**		**$2,928.59**
Fed W/H			$516.74		$1,394.76
FICA EE			$236.62		$665.86
Fed MWT EE			$55.33		$155.72
MI W/H			$162.13		$309.25
NC W/H			$145.00		$403.00
Post-Tax Deductions			**$243.16**		**$243.16**
ROTH ATX			$235.93		$235.93
PERS ACC INS			$4.62		$4.62
LIFE INS ATX			$2.52		$2.52
LIFE INS SPOUSE			$0.09		$0.09
	Routing #	**Account #**	**Amount**		**Amount**
Net Pay			**$2,453.73**		**$7,564.16**
Direct Deposit	072000096	XXXXXX9246	$2,453.73		

Accruals & Balances	
PTO Balance:	27.69 Hours
Floating Holiday Balance:	24.00 Hours

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	10/24/2025
Pay Period:	10/6/2025 - 10/19/2025
Deposit Advice #:	145090729
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)
State Filing Status:	(NC)
State Exemptions:	(NC)

Supplemental Earnings Statement

Earnings	Begin Date	End Date	Hours/Units	Rate	Amount
Regular	10/6/2025	10/12/2025	40.0000	43.2700	$1,730.80
Regular	10/13/2025	10/19/2025	40.0000	43.2700	$1,730.80
Overtime	10/6/2025	10/12/2025	7.2500	43.2700	$313.71
OT Prem .5X	10/6/2025	10/12/2025	7.2500	21.6350	$156.85
US Total Imputed Income	10/6/2025	10/19/2025			$1.51
US Aflac	10/6/2025	10/19/2025			$2.19
Total Hours Paid			**94.5000**		

SIEMENS Healthineers

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	221 Gregson Drive Cary, NC 27511
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	9/26/2025
Pay Period:	9/8/2025 - 9/21/2025
Check #:	912631678
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(NC)
State Exemptions:	(NC)

	Current 9/8/2025 - 9/21/2025			YTD As of 9/21/2025	
	Hours/Units	**Rate**	**Amount**	**Hours/Units**	**Amount**
Earnings	**80.0000**		**$3,461.60**	**80.0000**	**$3,461.60**
Regular	80.0000	43.2700	$3,461.60	80.0000	$3,461.60
Taxes			**$832.82**		**$832.82**
Fed W/H			$439.01		$439.01
FICA EE			$214.62		$214.62
Fed MWT EE			$50.19		$50.19
NC W/H			$129.00		$129.00
	Routing #	**Account #**	**Amount**		**Amount**
Net Pay			**$2,628.78**		**$2,628.78**
Check			$2,628.78		

Accruals & Balances	
PTO Balance:	9.23 Hours
Floating Holiday Balance:	24.00 Hours



Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	221 Gregson Drive Cary, NC 27511
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	9/26/2025
Pay Period:	9/8/2025 - 9/21/2025
Check #:	912631678
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(NC)
State Exemptions:	(NC)

Supplemental Earnings Statement

Earnings	Begin Date	End Date	Hours/Units	Rate	Amount
Regular	9/8/2025	9/14/2025	40.0000	43.2700	$1,730.80
Regular	9/15/2025	9/21/2025	40.0000	43.2700	$1,730.80
Total Hours Paid			**80.0000**		

SIEMENS Healthineers

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Apt 230 Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	12/12/2025
Pay Period:	11/17/2025 - 11/30/2025
Deposit Advice #:	172751604
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)

	Current 11/17/2025 - 11/30/2025			YTD As of 11/30/2025	
	Hours/Units	**Rate**	**Amount**	**Hours/Units**	**Amount**
Earnings			**$393.18**	**607.5000**	**$32,150.68**
Regular				472.0000	$20,423.44
Holiday				8.0000	$346.16
Overtime				63.7500	$2,758.48
OT Prem .5X				63.7500	$1,379.22
USGURELOCATION					$6,850.20
USANNUALBONUS			$393.18		$393.18
Taxable Benefits					**$13,371.70**
US Total Imputed Income					$6.04
US Critical Ill					$8.76
US GSS Relo TXB					$13,356.90
Memo Information					**$200.00**
US HSA Employer Contribution					$200.00
Pre-Tax Deductions					**$537.80**
MEDPTX					$395.20
DENTAL PTX					$82.60
HSA Employee					$60.00
Taxes			**$133.29**		**$13,306.34**
Fed W/H			$86.50		$7,971.55
FICA EE			$24.38		$2,789.05
Fed MWT EE			$5.70		$652.27
MI W/H			$16.71		$1,764.47
NC W/H					$129.00
Post-Tax Deductions			**$23.59**		**$1,131.55**
ROTH ATX			$23.59		$1,102.63
PERS ACC INS					$18.48
LIFE INS ATX					$10.08
LIFE INS SPOUSE					$0.36
Reimbursements					**$2,628.78**
EFT Replace					$2,628.78
	Routing #	**Account #**	**Amount**		**Amount**
Net Pay			**$236.30**		**$19,803.77**
Direct Deposit	072000096	XXXXXX9246	$236.30		

Accruals & Balances

PTO Balance:	55.38 Hours
Floating Holiday Balance:	24.00 Hours

Employer Name:	Siemens Medical Solutions USA Inc.
Employer Phone:	877-235-7420
Employer Address:	40 Liberty Blvd Malvern, PA 19355

Employee Name:	Julio Conforto
Employee #:	Z003B8DE
Employee Address:	42259 Fountain Park Dr N Apt 230 Novi, MI 48375
Department:	12627
Job Title:	SERVITE12 - Service Technician

Pay Date:	12/12/2025
Pay Period:	11/17/2025 - 11/30/2025
Deposit Advice #:	172751604
Pay Frequency:	Bi-Weekly
Pay Rate:	43.2700
Federal Filing Status:	Single
Federal 2c/Extra Withholding:	No
State Filing Status:	(MI)
State Exemptions:	(MI)

Supplemental Earnings Statement

Earnings	Begin Date	End Date	Hours/Units	Rate	Amount
USANNUALBONUS	11/17/2025	11/23/2025			$393.18
Total Hours Paid					

C.II - Second Prong: Honors and Recognitions

FPGA IMPLEMENTATION OF A PROPORTIONAL-INTEGRAL CONTROLLER FOR SPEED AND POSITION CONTROL SYSTEMS OF MOTORS APPLIED TO MOBILE ROBOTICS

Authors

JULIO CONFORTO *(4)*
MARCOS BANHETI RABELLO VALLIM *(8)*

Category

Undergraduate Research Project

Introduction

Mobile robots have played a vital role in the advancement of civilization. Through their freedom of movement, they can perform tasks that require flexibility, such as carrying out inspections, transporting goods in hospitals, factories, ports, warehouses, and mining operations, and exploring inhospitable environments, such as outer space and oceans, among others. To operate effectively, they must be capable of maintaining system stability and precision in controlling the position and speed of their motors. Therefore, this work aims to present the implementation of a position and speed controller on an FPGA applied to DC motors. This application contributes to the development of an educational robotics platform for the *Ninho de Pardais* Project (Vallim et al., 2009).

Objective

Implement a discretized Proportional-Integral (PI) controller on an FPGA to control the position and speed of DC motors.

Materials and Methods

The Proportional-Integral (PI) controller is responsible for reducing the steady-state error, being characterized as a phase-lag compensator (Ogata, 2010).

where Kp is the proportional gain and Ti is the integral time. The parameters Kp and Ti are referred to as controller tuning parameters (Ogata, 2010).

The use of this controller is due to the fact that it is easy to implement and versatile, with the ability to modify the transient and steady-state behaviors of the controlled process.

Results and Discussion

This section focuses on the results obtained from the development of the controllers.

The motor control process for the speed and position systems is divided into three stages: the reference signal (input), the actuator (PI controller action), and feedback (sensor reading). The controller reference signal is provided by the NIOS II, which is responsible for managing and logically routing the robot's tasks. The system feedback is obtained through readings from encoder sensors. This reading detects the rising edge of the pulse and conditions the signal for the unit used in the control system (rad/s or rad). The actuator signal, in turn, is provided by the PI controller, which calculates the system error based on the difference between subtracting the reference signal and the conditioned sensor signal and attenuates it.

Conclusion

This work presented the implementation of a speed and position controller applied to DC motors. The controller was validated through the analysis of its response to variations in speed and position references, as well as to variations in the load coupled to the motor shaft. The controller presented satisfactory results, meeting both performance and stability requirements while respecting the operational limits of the elements involved.

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Raphael Michels Fantinato de Moura. **Date: August 1, 2026.**

IMPLEMENTAÇÃO NO FPGA DE UM CONTROLADOR PROPORCIONAL-INTEGRATIVO PARA OS SISTEMAS DE VELOCIDADE E POSIÇÃO DE MOTORES APLICADOS NA ROBÓTICA MÓVEL

Autores

JULIO CONFORTO *(4)*
MARCOS BANHETI RABELLO VALLIM *(8)*

Categoria

Trabalho de Iniciação Científica

Introdução

Os robôs móveis tem desempenhado um papel vital no avanço da civilização. Através da sua liberdade de movimento, eles podem realizar tarefas que exijam flexibilidade como realizar inspeções, transporte de mercadorias em hospitais, fábricas, portos, armazéns e mineração, e explorar terrenos inóspitos, como espaço ou oceanos, entre outras. Para operar de forma eficaz, eles devem ser capazes de manter o sistema estável e preciso no controle de posição e velocidade de seus motores. Desta forma, este trabalho tem o objetivo de apresentar a implementação em um FPGA de um controlador de posição e velocidade aplicados a MCC. Tal aplicação proporciona uma contribuição no desenvolvimento de uma plataforma de robótica educacional para o Projeto Ninho de Pardais (Vallim et al., 2009).

Objetivos

Implementar um controlador Proporcionais-Integrativos (PI) discretizados no FPGA para controlar o sistema de posição e velocidade dos MCC.

Material e Métodos

O controlador Proporcional Integrativo (PI) é responsável em atenuar o erro em regime permanente, caracterizando-se como um compensador por atraso de fase (Ogata, 2010).

em que Kp é o ganho proporcional e Ti é o tempo integral. Os parâmetros Kp e Ti são chamados parâmetros de ajuste do controlador (Ogata, 2010).

A utilização deste controlador deve-se ao fato de ser facilmente implementável e versátil com capacidade de alterar os comportamentos transitórios e de regime permanente do processo sob controle.

Resultados e Discussão

Esta seção foca no resultado do desenvolvimento dos controladores.

O processo de controle dos motores para os sistemas de velocidade e posição é dividido em três etapas: sinal de referência (entrada), atuador (ação do controlador PI) e a realimentação (leitura do sensor). O sinal de referência do controlador é fornecido pelo NIOS II, que é responsável pelo gerenciamento e encaminhamento lógico das tarefas do robô. A realimentação do sistema é feita através da leitura dos sensores encoders, tal leitura detecta a borda de subida do pulso e condiciona o sinal para a unidade utilizada no controle (rad/s ou rad). Já o sinal do atuador é fornecido pelo controlador PI que calcula o erro do sistema através da subtração entre o sinal de referência e o sinal condicionado do sensor e atenua.

Conclusão

Este trabalho apresentou a implementação de um controlador de velocidade e posição aplicado nos MCC. A validação do controlador foi por meio da análise da resposta a variações na referência de velocidade e posição, bem como à variação da carga acoplada ao eixo do motor. O controlador apresentou resultados satisfatórios, atendendo tanto às condições de desempenho quanto às de estabilidade, respeitando os limites operacionais dos elementos envolvidos.

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Apoio

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Outlook

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Date Mon, 11/07/2011 1:48 PM
To julio.conforto@hotmail.com <julio.conforto@hotmail.com>
Cc mvallim@utfpr.edu.br <mvallim@utfpr.edu.br>

Dear Júlio/Professor Marcos

We are pleased to inform you that the paper ***FPGA IMPLEMENTATION OF A PROPORTIONAL-INTEGRAL CONTROLLER FOR SPEED AND POSITION CONTROL SYSTEMS OF MOTORS APPLIED TO MOBILE ROBOTICS*** has been awarded a Certificate of Honorable Mention, which will be sent by mail to the student Júlio's address.

Sincerely,

Scientific Committee - EAC/UNOPAR
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Cc mvallim@utfpr.edu.br <mvallim@utfpr.edu.br>

Prezado Júlio/Professor Marcos

É com satisfação que informamos que o trabalho ***IMPLEMENTAÇÃO DE UM CONTROLADOR DE VELOCIDADE E POSIÇÃO BASEADO EM FPGA PARA MOTORES APLICADOS EM ROBÓTICA MÓVEL,*** foi contemplado com o certificado de Menção Honrosa, que encaminharemos pelo correio no endereço do aluno Júlio.

Atenciosamente,

Comissão Científica - EAC/UNOPAR
(43)3371-7848
eac@unopar.br

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Esta mensagem foi verificada pelo sistema de antivírus e
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An FPGA-Based Robotics Platform for Educational and Research Applications

Publisher: IEEE Cite This PDF

Marcel D. A. Siqueira ; Júlio Conforto ; Marcos B. R. Vallim All Authors

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Abstract

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I. Introduction

II. ROBOTICS PLATFORM CONTEXT

III. HARDWARE MODULE

IV. PROGRAMMING ENVIRONMENT

V. RESULTS

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Abstract:
This paper presents a robotics platform in its hardware and software aspects. The platform applications are for both educational and research fields. It includes three modules: mechanical module, hardware module and software module, being the latter two modules the subject of this paper. The hardware is based on FPGA and described through VHDL, aiming flexibility of prototyping and feasibility of structural changes. We use a DE2 development board to base the prototype and a Nios II soft processor to run application algorithms. In order to read analog signals, we employ a PWM reading technique. Based on a Lego Mindstorms NXT ® motor we calculated a mathematical model and projected PI control modules for them. On all this hardware approach is developed a programming environment for the platform. The environment is based on programmable blocks, that once logically united generate a hidden C source file as firmware of the robot. Downloads of application are performed through the USB-Blaster component and tools provided by the Altera Company.

Published in: 2012 Brazilian Robotics Symposium and Latin American Robotics Symposium

Date of Conference: 16-19 October 2012

DOI: 10.1109/SBR-LARS.2012.58

Date Added to IEEE *Xplore*: 29 November 2012

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Dear Author:

Congratulations! We have been notified that your paper has been accepted for publication in the proceedings of the
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Cc Marcos Banheti Rabello Vallim <mvallim@utfpr.edu.br>; Julio Conforto <julio.conforto@hotmail.com>

Dear Marcel Danilo Alves Siqueira:

Congratulations - your paper "A FPGA-based Robotics Platform for Educational and Research Applications" for SBR/LARS 2012 has been accepted.

The reviews are below or can be found at
https://submissoes.sbc.org.br/PaperShow.cgi?m=104693

Regards,
Conference Chairs

===== Review =====

*** General comments on the multiple choice review ((Please provide the authors some feedback on the scores you gave for the originality of the work, contribution to the field, technical strength, organization and presentation multiple choice reviews)): The authors present an educational robotic platform based on FPGA. The work seems technically sound and relevant to education if not to research. For the relevance to education to be better defined, information on the final costs of the platform would be useful. The presentation is hindered by substandard English. Proper review of this paper is essential if it is to be an instrument of exchange of ideas to a foreign audience.

*** What recommendations can you give to improve the paper? ((Please provide the authors some feedback on how they can improve their paper)): Presentation: Title: A FPGA.... -> An FPGA

P1 "Based on a Lego Mindstorms NXT motor was calculated a mathematical model and projected PI control modules for them. On all this hardware approach was developed a programming environment for the platform.""

The construction "It was done x" is wrong in English. That is direct and

wrong translation from Portuguese. "X was done" is acceptable, "We did X" is better. This happens throughout the text.

"In market, there are since simple and ﬂexible robotics kits as Lego Robotics and Fischertechnik to other more expensive and sophisticated, like the Festo robots [1].". It should be "the market". More important, the translation for "desde .... até" should be "from..... to....". This appears more than once.

I will just point out some more phrases with bad grammar problems. Please have them revised.

"Spread the use of these kits to public schools is a challenge, since, as pointed by [2], the high cost makes they are not part of the reality of Brazilian public education".

"Because of the kit is modular, the mechanical structures are also modular in order to offer a wide range of assemblies options."

P3 "The programming environment consists of four main elements, and includes since user programming to download of the application in a memory of the robot. "

"The workspace is designed under the object-oriented (OO) paradigm, and its responsible for capturing the information entered by the user" (it is)

P4 "For the control action can be implemented in a digital system, it is necessary to discretize the controller model [11]."

"On the shown hardware was developed a software component to program the robots assembled with the platform."

_____ On the technical side, the cost of the platform was cited as a motivation. It is to be expected that an estimate of the cost is presented. Also, should the title suggest research applications? Are there specific examples in mind?

===== Review =====

*** What recommendations can you give to improve the paper? ((Please provide the authors some feedback on how they can improve their paper)): With a view to practical implementation of the project and not be only in simulation with mathematical model, it would be interesting to emphasize and have also developed the mechanical module. Thus, it would be easier to consider also the real project as a robotics platform for education, as discussed in the paper.

The "Figure 3. Software screen with some available blocks" is not good to see the information and it should also comment briefly the figure

parameters.

With respect to control PI, it would be interesting to make a table with various values of Kp and Ki with the control time response. Moreover, it would be interesting to expose in the paper a photo of the hardware used with the function of each circuit component.

===== Review =====

*** General comments on the multiple choice review ((Please provide the authors some feedback on the scores you gave for the originality of the work, contribution to the field, technical strength, organization and presentation multiple choice reviews)): - The paper presents the development of hardware / software-based FPGA to a robotic platform. - The justification for choosing this architecture are its facilitations in terms of design and modularity. - The authors must make clear what the benefit to be obtained using the proposed architecture based on FPGA. - Despite being a topic of growing interest in the academic community, especially concerning the evaluation of technological solutions that include mobile robotics education and research, the article has some information gaps and scientific / technical superficial. - The article is well presented, good organization and clarity; - The text shows a good knowledge of the authors on the subject.

*** What recommendations can you give to improve the paper? ((Please provide the authors some feedback on how they can improve their paper)): - Does not show a model of the mobile platform and details of the type of robot to be used. - Add more references / state of the art in the introduction. - Insufficient details about the design of the hardware (FPGA, circuit board / kits, etc.). - Explain details of software development using flowcharts. - It is not justified the choice of tuning parameters of controllers. - Do not show results that demonstrate the benefits obtained with use of the FPGA. - The results are presented graphically without information about trajectories. - Making an approach to trajectory tracking.

Outlook

Industry Day

From Eurico <euricoalmeida@utfpr.edu.br>
Date Wed, 05/13/2015 10:42 AM
To julio.conforto@hotmail.com <julio.conforto@hotmail.com>

Good morning, Júlio!

Please find attached the invitation to the Industry Day event, which will be held on May 25, 2015, at 7:30 PM at the Federal Technological University of Paraná (UTFPR) Events Center.

As previously informed, you will be the alumnus honored in the field of Electrotechnics. We have already sent the printed invitations, as well as the 4 dinner tickets. If you need any additional tickets for the dinner, they can be purchased for R$ 60.00.

I need you to send me, by the 20th, a summary of your time at UTFPR and your professional career.

Sincerely.

Eurico Pedroso de Almeida Junior
Director of Corporate and Community Relations
Cornélio Procópio Campus - UTFPR-PR

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



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Dia da Industria

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Bom dia, Júlio!

Segue anexo o convite para o evento Dia da Indústria a ser realizado no dia 25 de maio de 2015, às 19h30min no Centro de Eventos da UTFPR.

Como já informado você será o aluno egresso homenageada na área de Eletrotécncia, já enviamos o convite impressos e também os 04 convite para o Jantar, se necessário mais algum convite para o jantar, pode ser adquirido por R$ 60,00.

Preciso que me envie até o dia 20 um histórico de sua passagem pela UTFPR e de sua carreira profissional.

Atenciosamente.

Eurico Pedroso de Almeida Junior
Diretor de Relações Empresariais e Comunitárias
Câmpus Cornélio Procópio - UTFPR-PR

Industry Day

The Federal Technological University of Paraná, Cornélio Procópio Campus, FIEP and ACECP, recognizing the entrepreneurial spirit, dynamism, and relevant role developed in the University-Industry interaction,

grants **Júlio Conforto**

the title of Distinguished Alumnus of the Year 2014 in the Electrical Engineering program. .

Cornélio Procópio, May 25, 2015.

Devanil Antonio Francisco
DIRECTOR OF THE CORNÉLIO PROCÓPIO CAMPUS

José Roberto Altizani
FIEP REGIONAL COORDINATOR

Marcos Pedroso de Oliveira
PRESIDENT OF ACECP

UTFPR
FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ
CORNÉLIO PROCÓPIO CAMPUS

FIEP SESI SENAI IEL
FIEP: Federation of Industries of the State of Paraná
SESI: Industrial Social Services
SENAI: National Service for Industrial Apprenticeship
IEL: Euvaldo Lodi Institute

ACECP
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Date: August 28, 2026.

Dia da Indústria

A Universidade Tecnológica Federal do Paraná, Câmpus Cornélio Procópio, a FIEP e a ACECP, reconhecendo o espírito empreendedor, o dinamismo e o relevante papel desenvolvido na interação Universidade - Empresa,

confere a **Júlio Conforto**

o título de Aluno egresso destaque do ano de 2014 no curso de Engenharia Elétrica.

Cornélio Procópio, 25 de maio de 2015.

Devanil Antonio Francisco
DIRETOR CÂMPUS CP

José Roberto Altizani
COORDENADOR REGIONAL DA FIEP

Marcos Pedroso de Oliveira
PRESIDENTE DA ACECP

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COMPARATIVE STUDY OF ALTERA AND XILINX RECONFIGURABLE LOGIC TECHNOLOGIES

Authors

MARCOS BANHETI RABELLO VALLIM *(8)*
JULIO CONFORTO *(4)*

Category

Undergraduate Research Project

Introduction

The electronics industry has introduced a wide variety of products, a large portion of which are based on some form of embedded digital computing. The choice of the processing technology to be used during the initial stages of implementing a digital system determines several characteristics of the final product. In general, a computing system can be implemented using hardware-programmable devices (FPGA). The use of these devices considerably reduces both prototyping time and project costs. They can be easily reprogrammed to accommodate system modifications without requiring changes to the hardware.

To promote this new technology for designing digital system, this paper presents a comparison of the characteristics of FPGAs (ALTERA, XILINX), the elements that make up their basic architecture, aspects related to their reconfiguration, and the advantages of their use.

Objective

To present a comparative analysis of two leading technologies in the production of FPGA devices (ALTERA and XILINX), in order to assist designers in selecting the appropriate component for use in their projects.

Methodology

For the development of this paper, two embedded development boards, supplied by ALTERA and XILINX, were used. To ensure that a proper comparison was conducted, the datasheets for each board were thoroughly examined.

A source code written in VHDL was developed and compiled for both boards (using their respective compilers), in order to compare compatibility and performance.

Results

The choice of the device to be used in a system depends on several factors. The number of I/O ports and logic units is important when developing a large-scale, complex project that requires high performance.

The compilation of the source code written in VHDL made it possible to verify compatibility between the two technologies. Thus, it is evident that the designer can easily switch manufacturers without the need to develop different hardware for the project.

Based on the results obtained, it can be observed that the Cyclone II family provides better performance than the Spartan-3E family. However, when commercial prices are taken into consideration, large-scale production of products incorporating Cyclone II FPGAs becomes more costly. Prices range from $14.08 for the simplest model to $422.40 for the more sophisticated models, whereas the Spartan-3E family offers devices ranging from $9.88 to $122.13.

Conclusion

The comparative study of the FPGAs described in this paper was based largely on the description of the internal architecture of these devices, namely the logic units that store the functions, the input/output blocks that interface with the external environment, and the interconnection architecture among the modules. As a continuation of this work, a more in-depth study of processor performance is proposed through the development of software to evaluate the performance of each board.

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SCHÜTZ, Fernando., Estudos de FPGA. 2000. 128 f., Undergraduate Thesis (Informatics Program) -- Center for Exact and Technological Sciences, UNIOESTE, Cascavel, 2000. Available at: < http://www.pb.utfpr.edu.br/fernando/tcc.pdf>. Accessed on: Jul. 25, 2010.

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(8) Faculty Member – Federal Technological University of Paraná - Cornélio Procópio

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Raphael Michels Fantinato de Moura. **Date: August 1, 2026.**

ESTUDO COMPARATIVO DAS TECNOLOGIAS DE LÓGICA RECONFIGURÁVEL ALTERA E XILINX

Autores

MARCOS BANHETI RABELLO VALLIM *(8)*
JULIO CONFORTO *(4)*

Categoria

Trabalho de Iniciação Científica

Introdução

A indústria eletrônica vem apresentando uma grande variedade de produtos, sendo que grande parte destes, estão baseados em algum tipo de computação digital embarcada. A escolha do processamento a ser utilizado, durante as fases iniciais de implementação de um sistema digital, irá definir diversas características deste produto. Basicamente, um sistema computacional, pode ser implementado por dispositivos programáveis em hardware (FPGA). A sua utilização diminui, consideravelmente, o tempo de prototipagem e seu custo de projeto. Eles podem facilmente ser reprogramados para atender uma modificação do sistema sem a necessidade da mudança do hardware.

De forma a promover esta nova tecnologia de concepção de sistemas digitais, este artigo tem o objetivo de apresentar um comparativo entre as características dos FPGAs (ALTERA, XILINX), os elementos que compõe sua arquitetura básica, aspectos de reconfiguração e as suas vantagens de utilização.

Objetivo

Apresentar uma análise comparativa entre duas tecnologias líderes na produção de dispositivos FPGAs (ALTERA e XILINX), de modo que auxilie o projetista na escolha adequada do componente para a utilização deste no projeto.

Metodologia

Para o desenvolvimento deste artigo, foram utilizadas duas placas embarcadas, fornecidas pelas empresas ALTERA e XILINX. Para que uma comparação correta fosse realizada, foram observados detalhadamente os datasheets de cada uma.

Foi elaborado um código fonte escrito em VHDL, e compilado para as duas placas (com seus respectivos compiladores), para obter uma comparação de compatibilidade e performance.

Resultado

A escolha do dispositivo a ser utilizado em um sistema depende de vários fatores. A quantidade de portas de I/O e unidades lógicas são importantes quando se está desenvolvendo um projeto complexo, de grande porte, que exija uma alta performance.

A compilação do código fonte escrito em VHDL, permitiu a verificação da compatibilidade entre as duas tecnologias. Logo, percebe-se que o projetista possui a facilidade de mudança de fabricante, sem a necessidade de desenvolver outro hardware para o projeto.

Através dos resultados apresentados, observa-se que a família Cyclone II possui um melhor desempenho quando comparada com a Spartan-3E. No entanto, avaliando valores comerciais, torna-se mais onerosa uma alta produção de produtos que incluam o FPGA da família Cyclone II. Seus valores comerciais variam entre $14.08 para o modelo mais simples até $422.40 para modelos sofitiscados, enquanto a Spartan-3E oferece dispositivos entre $9.88 e $122.13.

Conclusão

O estudo comparativo entre os FPGAs descritos neste artigo, baseou-se em grande parte na descrição da arquitetura interna presente nestes dispositivos, sendo estes as unidades lógicas que armazenam a função, os blocos de entrada e saída que fazem a interface com o meio externo e a arquitetura de interconexão entre os módulos. Como proposta de continuidade, visa-se estudar com mais profundidade o desempenho do processador, desenvolvendo softwares que avalie a performance de cada placa.

Bibliografia

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MARQUES, Paulo C. F., Algoritmo de Roteamento Maze para Dispositivos Programáveis FPGA. 2002. 88 f., Dissertação (Mestrado Ciência da computação) - Programa de Pós-Graduação em Tecnologia, PUC, Porto Alegre, 2002. Disponível em: < http://ww1.inf.pucrs.br/~moraes/my_pubs/papers/dissertacao_paulo_cesar.pdf>. Acesso em: 25 jul. 2010.

SCHÜTZ, Fernando., Estudos de FPGA. 2000. 128 f., Dissertação (Graduação Informática) -- Centro de Ciências Exatas e Tecnológicas, UNIOESTE, Cascavel, 2000. Dísponível em: < http://www.pb.utfpr.edu.br/fernando/tcc.pdf>. Acesso em: 25 jul. 2010.

XILINX INC., Spartan-3E FPGA Family: Complete Data Sheet. Disponível em: <http://pdf1.alldatasheet.com/datasheet-pdf/view/202147/XILINX/XC3S500E.html>. Acesso em: 12 de jul. 2010.

Apoio

FINANCIADORA DE ESTUDOS E PROJETOS

Legenda

(8) Docente - Universidade Tecnológica Federal do Paraná - Cornélio Procópio
(4) Aluno Graduação - Universidade Tecnológica Federal do Paraná - Cornélio Procópio

Outlook

INVITATION TO PUBLISH - UNOPAR CIENTÍFICA JOURNAL

From Unopar Científica Journal <cientifica@unopar.br>
Data Fri, 11/19/2010 05:00 p.m.
To julio.conforto@hotmail.com <julio.conforto@hotmail.com>; mvallim@utfpr.edu.br <mvallim@utfpr.edu.br>

2 attachments (44 KB)
CARTA DE AUTORIZAÇÃO PARA PUBLICAÇÃO.doc; (Letter of authorization for publication)
CONCESSÃO DE DIREITOS AUTORAIS - ARTIGO.doc; (Copyright transfer agreement - article)

Dear authors Júlio Conforto and Marcos Banheti Rabello Vallim,

Regarding your paper **"Comparative Study of Altera and Xilinx Reconfigurable Logic Technologies"** which competed for the Undergraduate Research Award at the 4th National Congress of University Outreach and the 13th UNOPAR Scientific Activities Meeting in the area of Exact and Technological Sciences, we would like to invite you to submit your article to the UNOPAR *Científica Ciências Exatas e Tecnológicas* journal.

This is a printed and electronic scientific journal that has been in circulation for 10 years, with quarterly publications, and is committed to meeting national and international scientific journal quality standards.

Should you accept this invitation, we kindly request that you send us the attached letter of authorization for publication and copyright transfer agreement, duly completed.

We remain available for any further clarification.

Sincerely,

Hélio H. Suguimoto
Editor

North Paraná University
UNOPAR Científica Journal
Av. Paris, 675 Jardim Piza
ZIP Code 86041-140 Londrina, Paraná, Brazil
Phone: (0xx43) 3371-7931
Email: **cientifica@unopar.br**

Please confirm receipt of this email.

--
This message has been scanned by the antivirus system
and is believed to be free of threats.

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: August 1, 2026.**

Outlook

CONVITE PARA PUBLICAÇÃO - REVISTA UNOPAR CIENTÍFICA

De Revista Unopar Científica <cientifica@unopar.br>
Data Sex, 19/11/2010 17:00
Para julio.conforto@hotmail.com <julio.conforto@hotmail.com>; mvallim@utfpr.edu.br <mvallim@utfpr.edu.br>

2 anexos (44 KB)
CARTA DE AUTORIZAÇÃO PARA PUBLICAÇÃO.doc; CONCESSÃO DE DIREITOS AUTORAIS - ARTIGO.doc;

Prezados autores Júlio Conforto e Marcos Banheti Rabello Vallim,

Referente ao seu trabalho **"Estudo Comparativo das Tecnologias de Lógica Reconfigurável Altera e Xilinx"** ter concorrido ao prêmio de Iniciação Científica do 4° Congresso Nacional de Extensão Universitária 13° Encontro de atividades científicas da UNOPAR na área Ciências Exatas e Tecnológicas, convidamos a submeter seu artigo na revista UNOPAR Científica Ciências Exatas e Tecnológicas.

Este é um periódico científico impresso e eletrônico que circula há 10 anos, com publicações trimestrais, tendo a preocupação de se adequar aos critérios de qualidade dos periódicos científicos, nacional e internacional.

Caso aceite, solicitamos que nos envie a carta de autorização de publicação e a concessão dos direitos autorais, em anexo, preenchida.

Ficamos à disposição, para eventuais esclarecimentos.

Atenciosamente,

Hélio H. Suguimoto
Editor

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Favor acusar o recebimento deste email.

--
Esta mensagem foi verificada pelo sistema de antivírus e
acredita-se estar livre de perigo.

C.II - Second Prong: Other Comparable Evidence

Júlio Conforto

From: SENSE Mail Service <sense@service-now.com>
Sent: Thursday, August 8, 2024, 2:49 PM
To: hq_response.br@siemens-healthineers.com
Cc: Conforto, Julio
Subject: , No MS connected, P3 update, PEAK5352872, CT, SOMATOM go.Top (BR), Potential Product Issue, Error messages for fixed issues not appearing in the event log after shutdown and/or restart the software

---

Action - message from HQ

Activity Name: Potential Product Issue
Short description:
Error messages for fixed issues not appearing in the event log after shutdown and/or restart the software
What is the problem:
There is a problem with the event log, due to a fixed phase inversion problem, the error message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect does not always appear when turning off or restarting the equipment. The fact that the event log does not always display the error message when turning the equipment off and on again ends up compromising field diagnosis.
I'm starting up the Somatom go TOP SN 156368 equipment, and on August 06, 2024 I turned on the system. Below are the moments when the system was turned on and off and the event log displayed the phase error message (CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect)

August 6, 2024

10:01:18 - Equipment was turned on for the first time:
10:05:08 - CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect;
10:16:38 - CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect;
10:22:11 - Equipment was turned off.

10:37:01 - Equipment was turned on;
The event log didn't show the message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect;
10:40:34 - Equipment has been restarted.

10:42:30 - Record of the moment the equipment was turned on after the reboot;
The event log didn't show the message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect;
11:30:03 - Equipment was turned off.

12:07:56 - Equipment was turned on again:
12:22:04 - CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect;
12:22:12 - CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect;
12:33:10 - Equipment has been restarted.

12:35:05 - Record of the moment the equipment was turned on after the reboot;
The event log didn't show the message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect;
14:23:33 - Equipment was turned off.

15:07:37 - Equipment was turned on again:
The event log didn't show the message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect;
17:09:58 - Equipment was turned off.

The sequence of phases was only corrected on the morning of August 7, 2024.

I would like your assessment of this failure, as I work with another type of equipment (magnetic resonance imaging) and I can confirm that for a fixed problem, the event log always reports the failure regardless of how many times the system is restarted.

I'm attaching the equipment savelog for your evaluation.
What has been done so far:
After 1 day of work to investigate the reason for the equipment failure, the equipment phase sequence was corrected.
When does it occur:
When starting the equipment startup procedure.

Nature of Issue: SW

Safety Assessment:
Did the Medical device cause or contribute to the death or serious injury to the user, patient, or others? No
The Medical device have malfunctioned and while no death or serious injury occurred, could the malfunction cause or contribute to a death or serious injury to the user, patient, or others if it were to occur again? No
Is there any other potential safety-related issue? Note: Refer to GD39 for PSCI criteria? No

---
What is the problem?

There is a problem with the event log, due to a fixed phase inversion problem, the error message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect does not always appear when turning off or restarting the equipment. The fact that the event log does not always display the error message when turning the equipment off and on again ends up compromising field diagnosis.
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I'm attaching the equipment savelog for your evaluation.

Master data information

Short description:Error messages for fixed issues not appearing in the event log after shutdown and/or restart the software
Customer Name:SANTA CASA DE MISERICORDIA
CI Description:SOMATOM go.Top (BR)
FuncLocation:508-0040167928-0010
Material:11061642
Serial Number:156368
Configuration item:1061945381
City:PONTA GROSSA
Country:BR
Division:CT
1st CSE Name:Julio Conforto
Complaint Preparer Name:Julio Conforto
Complaint Preparer Email:julio.conforto@siemens-healthineers.com
Problem Issue Type:Potential Product Issue
Send from:PEAK5352872

Unsubscribe | Notification Preferences

Ref:MSG26909708_WCbg3hgnZy7kQeMs36n

Júlio Conforto

From: Meng, Yu Kun
Sent: Thursday, August 22, 2024, 5:03 AM
To: Conforto, Julio
Cc: Siemens Healthineers SSME CT Complaint; Xu, Xiao Jie
Subject: RE: 【Investigation results】Information Request for Complaint 2024-00062561-1/PEAK5352872/ Notification NA

Dear Julio,

The investigation of this case has been done, below please find the investigation results:
If you have any questions about this results, please let us know.

From the log we could found every time the error was detected and reported actually. For example:

Message: Phase order of line input (L1/L2/L3) is incorrect
ID: CT_XRA.CT_XRA_E_335
Severity: Error
Timestamp: 2024-08-06T10:37:19.878-03:00
Process Name: CT.SystemInterface.Common.Container
Process Id: 15136
Thread Name:
Thread Id: 15504
AppDomain: CT.SystemInterface.Common.Container.exe
Machine: CT156368
EventSource: CT_XRA
Process Start Time: 2024-08-06T10:37:00.827-03:00
Extended Properties: MsgCreateTime - 2024-06-27T11:58:30.147-03:00

However, you can notice the error message was created at 2024-06-27 even the real error happened at 2024-08-06. It was due to the time of aCTimas was not synchronized with ICS timely. The detailed step is:

- After startup aCTimas will get the time from the RTC module inside at first.
- However, due to battery limit this RTC module is easily out of power and aCTimas actually got a past time (in this case it's 2024-06-27).
- During that period XRS detected the XRA error and reported this. However, this error (created at 2024-06-27) was regarded as a past error by ICS and it would be set as error log of 2024-06-27 as well. That's the reason why it's not reported at 2024-08-06
- Meanwhile aCTimas will synchronize the time with ICS later. So this error will be reported if the system keeps on for a while. However, the RTC module will only synchronize the time with ICS after system get standby. And that's why the error happens again after system restart.

As explained above it means this error will not happen once the system got standby successfully. Nevertheless, I had talked this with our FW colleague and they promise to improve this in the future.

Thanks and best regards.

Meng Yu Kun 孟玉锟

Siemens Shanghai Medical Equipment Ltd.
HC DI CT QT DCU
278, Zhouzhu Road, Nanhui
201318 SHANGHAI, China
Tel.: +86 021 20606762

From: Meng, Yu Kun
Sent: Wednesday, August 21, 2024 9:12 AM
To: Conforto, Julio <julio.conforto@siemens-healthineers.com>
Cc: Siemens Healthineers SSME CT Complaint <ssme_ct_complaint.team@siemens-healthineers.com>; Xu, Xiao Jie <xiaojie.xx.xu@siemens-healthineers.com>
Subject: RE: 【Reply Deadline 23.Aug.2024】Information Request for Complaint 2024-00062561-1/PEAK5352872/ Notification NA

Dear Julio,

Thank you for your feedback.
For unknown reasons, the savelog you uploaded was not transferred to our complaint system, so I missed it.
For the savelog you sent to me via Taas, I only received a password email and no link to the file to download. Would you please double check?

Thanks and best regards.

Meng Yu Kun 孟玉锟

Siemens Shanghai Medical Equipment Ltd.
HC DI CT QT DCU
278, Zhouzhu Road, Nanhui
201318 SHANGHAI, China
Tel.: +86 021 20606762

From: Conforto, Julio <julio.conforto@siemens-healthineers.com>
Sent: Tuesday, August 20, 2024 8:49 PM
To: Meng, Yu Kun <kun.meng@siemens-healthineers.com>
Cc: Siemens Healthineers SSME CT Complaint <ssme_ct_complaint.team@siemens-healthineers.com>; Xu, Xiao Jie <xiaojie.xx.xu@siemens-healthineers.com>
Subject: RE: 【Reply Deadline 23.Aug.2024】Information Request for Complaint 2024-00062561-1/PEAK5352872/ Notification NA

Dear Yu,

When opening PPI, I attached the savelog file. Was there any problem opening it?
I will forward the savelog file again via TaaS to the emails below:
kun.meng@siemens-healthineers.com
ssme_ct_complaint.team@siemens-healthineers.com
xiaojie.xx.xu@siemens-healthineers.com

I'm forwarding the UMAS log files taken from the savelog folder (SaveLog_VA40A_CT156368_156368_20240806_1509_Small.zip\SaveLog\TraceView)

With best regards,
Júlio Conforto

Siemens Healthcare Diagnósticos Ltda.
SHS AM LAM CS BRA SE STH
Rua Pasteur, 463 – Batel – Condomínio Centro Empresarial Jatobá – 13º andar
Curitiba – PR 80250-080
Mobile: +55 41 9 9271-0785
mailto:julio.conforto@siemens-healthineers.com



Your organization is currently not activated for using SCMS (e-mail signatures). Please contact the IT Support or help.scf@siemens.com

From: Meng, Yu Kun <kun.meng@siemens-healthineers.com>
Sent: Monday, August 19, 2024 10:56 PM
To: Conforto, Julio <julio.conforto@siemens-healthineers.com>
Cc: Siemens Healthineers SSME CT Complaint <ssme_ct_complaint.team@siemens-healthineers.com>; Xu, Xiao Jie <xiaojie.xx.xu@siemens-healthineers.com>
Subject: 【Reply Deadline 23.Aug.2024】Information Request for Complaint 2024-00062561-1/PEAK5352872/ Notification NA

Dear colleague,

This is SSME CT DCU. We got Complaint 2024-00062561-1/PEAK5352872/ Notification NA

Please provide the following information for further investigation:

1. The UMAS log between 10:00 and 10:40.

Please give us feedback by【**23.Aug.2024**】
Please reply to all when replying to this email, Thank you.

Complaint Content
****

Complaint Number	2024-00062561-1
SENSE Incident	PEAK5352872
Country RFA	NA
Safety Classification	Not Safety
Issue Initiated By	Customer
Hospital Name	SANTA CASA DE MISERICORDIA
Customer City	PONTA GROSSA
Country	BR
Product Name	SOMATOM go.Top (BR)
Siemens Material Number	11061642
Serial Number	156368
Software Version	VA40A-SP05
Date of (First)Event	2024-08-06
Date Healthineers Notified	2024-08-06

Creation Date	2024-08-08
Short Description	Error messages for fixed issues not appearing in the event log after shutdown and/or restart the
What is the problem	There is a problem with the event log, due to a fixed phase inversion problem, the error messag equipment off and on again ends up compromising field diagnosis. I'm starting up the Somatom go TOP SN 156368 equipment, and on August 06, 2024 I turned on August 6, 2024 10:01:18 - Equipment was turned on for the first time: 10:05:08 - CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect; 10:16:38 - CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect; 10:22:11 - Equipment was turned off. 10:37:01 - Equipment was turned on; The event log didn't show the message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is in 10:40:34 - Equipment has been restarted. 10:42:30 - Record of the moment the equipment was turned on after the reboot; The event log didn't show the message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is in 11:30:03 - Equipment was turned off. 12:07:56 - Equipment was turned on again: 12:22:04 - CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect; 12:22:12 - CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect; 12:33:10 - Equipment has been restarted. 12:35:05 - Record of the moment the equipment was turned on after the reboot; The event log didn't show the message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is in 14:23:33 - Equipment was turned off. 15:07:37 - Equipment was turned on again: The event log didn't show the message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is in 17:09:58 - Equipment was turned off. The sequence of phases was only corrected on the morning of August 7, 2024. I would like your assessment of this failure, as I work with another type of equipment (magnetic I'm attaching the equipment savelog for your evaluation.
When does it occur	When starting the equipment startup procedure.
What has been done so far	After 1 day of work to investigate the reason for the equipment failure, the equipment phase se

****

Thanks and best regards.

Meng Yu Kun 孟玉锟

Siemens Shanghai Medical Equipment Ltd.
HC DI CT QT DCU
278, Zhouzhu Road, Nanhui
201318 SHANGHAI, China
Tel.: +86 021 20606762

Júlio Conforto

From: sequre_do_not_reply@siemens-healthineers.com
Sent: Sunday, September 1, 2024, 11:26 PM
To: Conforto, Julio
Subject: Complaint completed (2024-00062561), SOMATOM go.Top (BR), Error messages for fixed issues not appearing in the event log after shutdown and/or restart the software

The complaint for PEAK Incident PEAK5352872 has been investigated.

CASE/COMPLAINT Ticket:	2024-00062561
PEAK Incident Number:	PEAK5352872
Country MQ:	n/a
Short Description:	Error messages for fixed issues not appearing in the event log after shutdown and/or restart the software
Closure Type:	Service Case
Closure Summary:	Problem Statement: There is a problem with the event log, due to a fixed phase inversion problem, the error message CT_XRA_E_335 Phase order of line input (L1/L2/L3) is incorrect does not always appear when turning off or restarting the equipment. The fact that the event log does not always display the error message when turning the equipment off and on again ends up compromising field diagnosis. ### Investigation Summary: I nterim Solution: CSE corrected the phase sequence of the input supply and the system recovered after that. Workaround: Workaround is to correct the phase sequence of the input supply. Investigation: After we checked with CS, we found that, this was a new installation system and XRA_E_335 was reported during system startup. CSE checked the system and found the phase sequence of the input supply was incorrect. The system recovered after the phase sequence correction. However, CSE claimed the event log did not always display the error message when turning the equipment off and on again. After we checked with R&D, we found that, it was due to the time of aCTimas was not synchronized with ICS timely. The detailed step is: • After startup aCTimas will get the time from the RTC module inside at first. • However, due to battery limit this RTC module is easily out of power and aCTimas got a past time (in this case it's 2024-06-27). • During that period XRS detected the XRA error and reported this. However, this error (created at 2024-06-27) was regarded as a past error by ICS and it would be set as error log of 2024-06-27 as well. That's the reason why it's not reported at 2024-08-06. • Meanwhile aCTimas will synchronize the time with ICS later. So, this error will be reported if the system keeps on for a while. However, the RTC module will only synchronize the time with ICS after system get standby. And that's why the error happens again after system restart.

	As explained above it means this error will not happen once the system got standby successfully. Moreover, this is just a minor issue of event log mechanism, and the problem also has no impact on customer normal usage. Root cause: XRA_E_335 error was caused by the incorrect phase sequence of the input supply. This is a service issue. Final Solution: No final solution is necessary due to this is a service issue. ### Harm As Reported: ### Notes:
Product Description:	SOMATOM go.Top (BR)
Product Material Number:	11061642
Product Serial Number:	n/a
Product Lot Number:	n/a
Institution:	
Country of Origin:	BRAZIL
Safety Classification:	Not Safety
Classified as Reportable:	No
DCU Contact:	ssme_ct_complaint.team@siemens-healthineers.com

Júlio Conforto

From: Tan, Lin (SHS DI MR QT SZN QMS)
Sent: Tuesday, November 13, 2018, 11:09 PM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU); Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG); Grigoli, Giovana Bonini (SHS AM LAM BRA CS SO SL)
Subject: RE: Complaint PM00146927

Importante: High

Hi Julio,
After check, this is a known issue at our side, and closing report as below:-

"Our experts had thoroughly investigated the complained confirmed problem.
Customer reported water leakage from water hose set for GC, and the problem was resolved by defective GC water hose set replacement via spare part. It is a known issue internal and the root cause was located in the copper raw material defect which would lead to stress corrosion cracking after the long-term usage.
We had implemented the following improvement in each relevant aspect pf design, supplier and manufacture process. And CR575847 was released on July.25th, 2012 to improve the problem.
1) Add 0.5mm in both side of the connector body; the thickness was changed from 14mm to 15mm;
2) Stop order from previous supplier, purchase from new supplier;
3) Defined QSn6.5-0.1(R) as raw material;
4) Improve the raw material inspection quality;
5) Improve water connector production process.
The cut-in GC serial No. to apply correction action is SN2130, so the GC with SN1163 in this complaint was delivered before correction action implementation.
We apologize for the inconvenience caused by this issue."

With best regards,
Lin Tan

Siemens Shenzhen Magnetic Resonance Ltd.
SHS DI MR QT SZN QMS
Gao Xin Zhong Er Dao
518057 SHENZHEN, China
Tel.: +86 755 23185130
mailto:tan@siemens-healthineers.com

From : Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Sent: Wednesday, November 14, 2018 1:01 AM
To: Tan, Lin (SHS DI MR QT SZN QMS); Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG); Grigoli, Giovana Bonini (SHS AM LAM BRA CS SO SL)
Subject: RES: Complaint PM00146927

Dear Lin,

Is there a need to open a new complaint for this study? Could you let me know if the material has arrived?

With best regards,

Julio Conforto

Siemens Healthcare Diagnósticos Ltda.
SHS AM LAM BRA CS SE SOU
Engenheiro de Serviços
Rua Pasteur, 463 - 13 andar - sala 1314
80250-140 - Curitiba-PR, Brasil
M + (55) 41 9 92710785

e-mal: julio.conforto@siemens-healthineers.com
www.healthcare.siemens.com.br

From: Tan, Lin (SHS DI MR QT SZN QMS)
Sent: Tuesday, October 30, 2018, 8:50 AM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU); Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG)
Subject: RE: Complaint PM00146927
Importante: High

Hi Julio,
Good day!
If so, I propose to send BU root cause analysis based on currently situation as we cannot do anything without the sample.
The investigation can be proceeded once we received the sample from you, and then the investigation result will be shared to you once it's finished. Thanks!

With best regards,
Lin Tan

Siemens Shenzhen Magnetic Resonance Ltd.
SHS DI MR QT SZN QMS
Gao Xin Zhong Er Dao
518057 SHENZHEN, China
Tel.: +86 755 23185130
mailto:tan@siemens-healthineers.com

From: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Sent: Friday, October 26, 2018 10:14 AM
To: Tan, Lin (SHS DI MR QT SZN QMS); Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG)
Subject: Complaint PM00146927

Dear Tan,

In order to avoid possible problems of the Brazilian and / or German customhouse to stop or delay the material because it considers a contaminated material, we decided to route the residue removed from the gradient coil together with the material of Complaint ICD 06233540 that contemplates SAP Number: 8501174.

This material is expected to arrive in Germany until November 10.

Thank you very much.

With best regards,
Julio Conforto

Siemens Healthcare Diagnósticos Ltda.
SHS AM LAM BRA CS SE SOU
Engenheiro de Serviços
Rua Pasteur, 463 - 13 andar - sala 1314
80250-140 - Curitiba-PR, Brasil
M + (55) 41 9 92710785
e-mal: julio.conforto@siemens-healthineers.com
www.healthcare.siemens.com.br

From: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Sent: Wednesday, October 17, 2018, 9:42 AM
To: Tan, Lin (SHS DI MR QT SZN QMS); Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG); Grigoli, Giovana Bonini (SHS AM LAM BRA CS SO SL)
Subject: Complaint PM00146927

Dear Tan,

The material hasn't yet been sent, I'm worked with Giovana, how best to send the material to you.

With best regards,
Julio Conforto

Siemens Healthcare Diagnósticos Ltda.
SHS AM LAM BRA CS SE SOU
Engenheiro de Serviços
Rua Pasteur, 463 - 13 andar - sala 1314
80250-140 - Curitiba-PR, Brasil
M + (55) 41 9 92710785
e-mal: julio.conforto@siemens-healthineers.com
www.healthcare.siemens.com.br

From: Tan, Lin (SHS DI MR QT SZN QMS)
Sent: Tuesday, October 16, 2018, 11:50 PM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU); Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG)
Subject: RE: Complaint PM00146927

Hi Julio,
Have you send out the sample? If yes, please let us know the express tracking No. for return tracking. Thanks!

With best regards,
Lin Tan

Siemens Shenzhen Magnetic Resonance Ltd.
SHS DI MR QT SZN QMS
Gao Xin Zhong Er Dao
518057 SHENZHEN, China
Tel.: +86 755 23185130
mailto:tan@siemens-healthineers.com

From: Tan, Lin (SHS DI MR QT SZN QMS)
Sent: Thursday, October 11, 2018 5:09 PM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU); Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG)

Subject: RE: Complaint PM00146927
Importance: High

Dear Julio,
Good day!
Please return the sample to below address:-

Receiver: Peng Wei Ping
Tel No.: 15994721791
Address: Siemens Shenzhen Magnetic Resonance Ltd.
SHS DI MR QT SZN QMS
Gao Xin Zhong Er Dao
518057 SHENZHEN, China

With best regards,
Lin Tan

Siemens Shenzhen Magnetic Resonance Ltd.
SHS DI MR QT SZN QMS
Gao Xin Zhong Er Dao
518057 SHENZHEN, China
Tel.: +86 755 23185130
mailto:tan@siemens-healthineers.com

From: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Sent: Wednesday, October 10, 2018 1:39 AM
To: Tan, Lin (SHS DI MR QT SZN QMS); Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG)
Subject: Complaint PM00146927

Dear Tan,

Could you provide your address to send the sample?

With best regards,

Julio Conforto

Siemens Healthcare Diagnósticos Ltda.
SHS AM LAM BRA CS SE SOU
Engenheiro de Serviços
Rua Pasteur, 463 - 13 andar - sala 1314
80250-140 - Curitiba-PR, Brasil
M + (55) 41 9 92710785
e-mal: julio.conforto@siemens-healthineers.com
www.healthcare.siemens.com.br

From: Tan, Lin (SHS DI MR QT SZN QMS)
Sent: Monday, October 8, 2018, 11:33 PM
To: Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC); Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG)
Subject: RE: Complaint PM00146927
Importance: High

Dear all,
Thank you for your information.

After discussed with our expert, please help to return the sample of foreign material to us for further analysis. Thanks!

With best regards,
Lin Tan

Siemens Shenzhen Magnetic Resonance Ltd.
SHS DI MR QT SZN QMS
Gao Xin Zhong Er Dao
518057 SHENZHEN, China
Tel.: +86 755 23185130
mailto:tan@siemens-healthineers.com

From: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Sent: Wednesday, October 3, 2018 10:49 PM
To: Tan, Lin (SHS DI MR QT SZN QMS)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG); Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Subject: Complaint PM00146927

Dear Tan,

I'm the CSE responsible for this site. As was coming on my vacation I kindly requested that our support from MR Dhiego Lofiego open a complaint to report the problems found on the site.

It was identified that on this site there was a problem of clogging in the water connections in the secondary circuit and water leaks. After diagnostic on site, I requested a new water distribution part on the gradient coil.
Thus on day 08/23/2018 I replaced the distributor and identified that the part (figure 1) was broken and was responsible for the water leakage at the output connections of the gradient coil. I requested the manufacture a new one piece and replaced. At the exit of water from the TAS was found much deposited material, according to figure block parts TAS and figure several parts.
According the figure 2, in the water removed from the gradient coil there was material was also found. The customer would like an investigation about into the material that is obstructing the secondary water system. The customer is a very concerned about this problem.

I collected and sent to our support Dhiego Lofiego a sample of the water removed from system with the residues.

Currently the equipment has two more water leakage outlets at the water outlet connections of the gradient coil.

With best regards,

Julio Conforto

Siemens Healthcare Diagnósticos Ltda.
SHS AM LAM BRA CS SE SOU
Engenheiro de Serviços
Rua Pasteur, 463 - 13 andar - sala 1314
80250-140 - Curitiba-PR, Brasil
M + (55) 41 9 92710785
e-mal: julio.conforto@siemens-healthineers.com
www.healthcare.siemens.com.br



From: Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC)
Sent: Monday, October 1, 2018, 8:00 PM
To: Tan, Lin (SHS DI MR QT SZN QMS); Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG)
Subject: RE: Complaint PM00146927

Hello Tan;

Attached a Picture from the piece that was broke and had to be removed / manufactured a new one...

Also as mentioned in the PM ticket, there were found a lot of resides inside the system had several Block parts such as in Gradient Coil Water Distributor and TAS.

I have a sample of the water removed from system with the residues and can send it to you in case you need to analyze.

The residues and the broke were object of complaint from customer.

Regards

d. v. lofiego

From: Tan, Lin (SHS DI MR QT SZN QMS)
Sent: Saturday, September 29, 2018, 11:19 PM
To: Lofiego, Dhiego Valentim (SHS AM LAM BRA CS SO CCC); Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Cc: PENG, WEI PING (SHS DI MR R&D SZN FG)
Subject: Complaint PM00146927
Importance: High

Dear Lofiego,
Good day!
Regarding this case, need your help to provide the defect picture of the water leakage. Thanks!

Complaint ID: PM00146927
Country: Brazil
System type: ESSENZA DOT
System SN: 165043
GC SN: 1163
SW version: VE11Q-SP01
Date of received:
9/27/2018 Safety or not:
Not safety

What is the problem:
Barbed hose fitting for water hose connection in GC is broke.
A small Leak was founs, when tried to replace the Water hose set for GC one of the Barbed hose fitting was broke.

When did it occur:
Permanent fault Durign replacement the Water hose set for GC

With best regards,
Lin Tan

Siemens Shenzhen Magnetic Resonance Ltd.
SHS DI MR QT SZN QMS
Gao Xin Zhong Er Dao
518057 SHENZHEN, China
Tel.: +86 755 23185130
mailto:tan@siemens-healthineers.com

Júlio Conforto

From: Castiglione, Vincenzo (SHS DI MR QT DCU)
Sent: Friday, January 18, 2019, 11:10 AM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Cc: Koerber, Karl (SHS CS HSC MR); Schmidt, Volker Robert (SHS CS HSC MR)
Subject: AW: Update for: PM00163006 EH102408, MAGNETOM AERA, Alarm box failed

Hello Julio,

The software version VE11E is already released since 15. January 2019, that means it is available now.

Kind Regards
Vincenzo Castiglione
SHS DI MR QT DCU

-----Original Message-----
From: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Sent: Mittwoch, 16. Januar 2019 14:18
To: Schmidt, Volker Robert (SHS CS HSC MR)
Cc: De Oliveira, Marcos Neves (SHS AM LAM BRA CS SE SOU); Siemens Healthineers RG BR RSC MR TSE; Siemens Healthineers SV CS HSC MR
Subject: RES: Update for: PM00163006 EH102408, MAGNETOM AERA, Alarm box failed

Dear Volker,

I would like your information or the responsible sector regarding the complaint opened on December 28, 2018. I received a reply, attached in the email, stating that this problem will be solved in new software version VE11E. Is there a date accuracy for the commercialization of this new version?
The another question is about the new resonance machines recently installed in Brazil with version VE11C. All are with the Z440 or Z420 computer models. In this case, what is procedure to request to change software from VE11C to VE11E?

With best regards,
Julio Conforto

Siemens Healthcare Diagnósticos Ltda.
SHS AM LAM BRA CS SE SOU
Rua Pasteur, 463 – Batel – Condomínio Centro Empresarial Jatobá – 13º andar Curitiba – PR 80250-080
Mobile: +55 41 99271-0785
mailto:julio.conforto@siemens-healthineers.com

Your organization is currently not activated for using SCMS (e-mail signatures). Please contact the IT Support or help.scf@siemens.com

-----Mensagem original-----
From: Schmidt, Volker Robert (SHS CS HSC MR) Sent: Friday, December 28, 2018, 10:08 AM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU) julio.conforto@siemens-healthineers.com
Subject: RE: Update for: PM00163006 EH102408, MAGNETOM AERA, Alarm box failed

Thank you Julio,

I already copied them into the ticket.

Have a nice day and a good Year 2019

Best regards

Volker Robert Schmidt

-----Original Message-----
From: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Sent: Freitag, 28. Dezember 2018 11:38
To: Siemens Healthineers SV CS HSC MR
Cc: Schmidt, Volker Robert (SHS CS HSC MR)
Subject: RES: Update for: PM00163006 EH102408, MAGNETOM AERA, Alarm box failed

Dear Sr. Volker,

Thank you for your prompt response on the topic. I`m forwarding the compressed files (89.4MB) via Secure File Exchange, directing to the emails indicated by you.

With best regards,
Julio Conforto

Siemens Healthcare Diagnósticos Ltda.
SHS AM LAM BRA CS SE SOU
Rua Pasteur, 463 – Batel – Condomínio Centro Empresarial Jatobá – 13º andar Curitiba – PR 80250-080
Mobile: +55 41 99271-0785
mailto:julio.conforto@siemens-healthineers.com

Your organization is currently not activated for using SCMS (e-mail signatures). Please contact the IT Support or help.scf@siemens.com

-----Mensagem original-----
From: wscshscmr.team@siemens-healthineers.com<wscshscmr.team@siemens-healthineers.com>
Sent: Friday, December 28, 2018, 6:45 AM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU) <julio.conforto@siemens-healthineers.com>
Cc: Schmidt, Volker Robert (SHS CS HSC MR) <volkerrobert.schmidt@siemens-healthineers.com>
Subject: Update for: PM00163006 EH102408, MAGNETOM AERA, Alarm box failed

Hello Julio,

I escalated your issue to the DCU.
Please sent the mentioned data via direct to DCU using address "mr-complaint.healthcare@siemens.com"
Of course you also can use the address for HSC "wscshscmr.team@siemens-healthineers.com".
In both cases please refer to "PM00163006"

There is no country ticket RFA and also no Country ticket MQ.
Please let us know the ticket number, so that the communication within out ticket system is established.
Without such ticket numbers we have to use the normal mail and the system does not work properly.

Best
Volker Robert Schmidt, HSC MR Erlangen

Conforto, Julio

From: RGBRRSCIMCP.br.team@siemens-healthineers.com
Sent: Thursday, December 27, 2018 3:57 PM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Cc: Siemens Healthineers RG BR QCA HQ Response; Siemens Healthineers RG BR RSC IMCP
Subject: ICD06447501, PM00163006, New PPI, MAGNETOM AERA, Alarm box failed

Issue Type: PPI
ICD Number: ICD06447501
Customer RFA No:
Customer expects response when implemented:
Preparer:
Preparer Name: CONFORTO JULIO 21071628
Preparer Office Phone: +55041992710785
Preparer Mobile Phone: +55 41 99271-0785
Preparer Email: JULIO.CONFORTO@SIEMENS-HEALTHINEERS.COM

Configuration Item:
Func Location: 508-0040190732-0015
Configuration Item: 1038344402
Material No.: 10432914
Division: MR
CI Description: MAGNETOM AERA
Serial No.: 141636
SW Version: VE11C-SP01
Country: BR
Customer:
Customer Name: HOSPITAL SAO VICENTE DE PAULO
City: PASSO FUNDO
Zip: 99010-080
State:
Customer Contact Name:
Phone Office: (54) 3316-4052
Phone Mobile:
Email:

Affected component:
Conf. Item:
CI Desc.:
Material No.:
Serial No. :
Nature of issue (code):
Nature of issue:
Description:
SW/Lot/Part:
Damage to property other than equipment involved?
Description:

Description:
Date Healthcare notified: 2018/12/27 12:00:00
Date of (first) event: 2018/12/27 12:00:00
Issue initiated by: Healthcare Internal
Short description: Alarm box failed
What is the problem: It has been observed that the alarm box of the Magnetom Aera equipment does not alert the customer if the compressor stops due to failure of the secondary water flow, after the water pump stops due to overheating.

When does it occur: Always when there are flaws in the customer's chiller system.

What has been done so far: I performed this simulation on three equipments and all of them presented this fault, Magnetom AERA SN141636, Magnetom SKYRA SN45361 and Magnetom AERA SN41578. I have a video made on the site after this simulation. It is noticed that the water pump interrupts its operation when the temperature of the secondary water system exceeds 30°C, and the compressor has an error in the display of water flow failure, stops working and is not informed via alarm box the fault. I can forward the data.
Parts:
Were accessories other than recommended by Siemens used?
Description:

Were parts replaced?
Material No.:

Serial No.:

Component description:

Software version:

In Siemens possession:

Returned on:

Red sticker on box:

Safety related data:
Did the customer inform the regulatory authority?
Was there any injury (even slightly) or death? / Identity

Extent of injury:

Age / Sex / Weight:
Accidental Radiation Occurrences (ARO)?
Description:

Did the injury necessitate medical intervention?
Describe the medical intervention:

By whom:
Was the device being used to treat or diagnose patient during the adverse event?
Was there an actual device failure to perform within the specifications during event?

Conforto, Julio

From: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Sent: Friday, December 28, 2018 5:38 AM
To: wscshscmr.team@siemens-healthineers.com
Cc: Schmidt, Volker Robert (SHS CS HSC MR)
Subject: RES: Update for: PM00163006 EH102408, MAGNETOM AERA, Alarm box failed
Attachments: ICD06447501, PM00163006, New PPI, MAGNETOM AERA, Alarm box failed

Dear Sr. Volker,

Thank you for your prompt response on the topic. I`m forwarding the compressed files (89.4MB) via Secure File Exchange, directing to the emails indicated by you.

With best regards,
Julio Conforto

Siemens Healthcare Diagnósticos Ltda.
SHS AM LAM BRA CS SE SOU
Rua Pasteur, 463 – Batel – Condomínio Centro Empresarial Jatobá – 13º andar Curitiba – PR 80250-080
Mobile: +55 41 99271-0785
mailto:julio.conforto@siemens-healthineers.com

Your organization is currently not activated for using SCMS (e-mail signatures). Please contact the IT Support or help.scf@siemens.com

-----Mensagem original-----
De: wscshscmr.team@siemens-healthineers.com <wscshscmr.team@siemens-healthineers.com>
Enviada em: sexta-feira, 28 de dezembro de 2018 06:45
Para: Conforto, Julio (SHS AM LAM BRA CS SE SOU) <julio.conforto@siemens-healthineers.com>
Cc: Schmidt, Volker Robert (SHS CS HSC MR) <volkerrobert.schmidt@siemens-healthineers.com>
Assunto: Update for: PM00163006 EH102408, MAGNETOM AERA, Alarm box failed

Hello Julio,

I escalated your issue to the DCU.
Please sent the mentioned data via direct to DCU using address "mr-complaint.healthcare@siemens.com"
Of course you also can use the address for HSC "wscshscmr.team@siemens-healthineers.com".
In both cases please refer to "PM00163006"

There is no country ticket RFA and also no Country ticket MQ.
Please let us know the ticket number, so that the communication within out ticket system is established.
Without such ticket numbers we have to use the normal mail and the system does not work properly.

Best
Volker Robert Schmidt, HSC MR Erlangen

Conforto, Julio

From: Siemens Healthineers RG BR QCA HQ Response
Sent: Monday, January 14, 2019 11:56 AM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Subject: FW: ICD06447501, P2 Decision not to fix the problem, PM00163006, MR, MAGNETOM AERA, PPI, Alarm box failed

Hello Julio, good afternoon

Please find below the information regarding Complaint PM00163006.

Thank you.

Sincerely,
Complaint Response Siemens Healthineers

Siemens Healthcare Diagnóscos Ltda
HC LAM BRA SV CS SO SC
Gestão de Complaints
Av Munga, 3800, CEP: 05110-902
São Paulo-SP, Brasilien
Tel.: +55 11 3908-1892
mailto:hq_response.br.team@siemens-healthineers.com
www.healthcare.siemens.com.br

-----Original Message-----
From: mr-complaint.team@siemens-healthineers.com [mailto:mr-complaint.team@siemens-healthineers.com]
Sent: Wednesday, January 9, 2019 1:17 PM
To: Siemens Healthineers RG BR QCA HQ Response
Cc: Siemens Healthineers MR-Complaint
Subject: ICD06447501, P2 Decision not to fix the problem, PM00163006, MR, MAGNETOM AERA, PPI, Alarm box failed

---
Action - message from HQ

Activiy Name: P2 Decision not to fix the problem
2019/01/09 4:15:08 PM - CASTIGLIONE, VINCENZO - Sent to IM: Yes # Sent to Country: Yes # Decision not to fix the problem:
Thank you for your input regarding our MR medical device. We would like to inform you that your input has been received and assessed at our MR Complaint Unit.

Our experts stated that issue is solved with VE11E software version.
A solution within VE11C is not planned.

We regret the inconvenience caused by this issue.

Decision by: DCU CCB
Decision date: 2019/01/09 4:12:59 PM

Problem description

What is the problem?
It has been observed that the alarm box of the Magnetom Aera equipment does not alert the customer if the compressor stops due to failure of the secondary water flow, after the water pump stops due to overheating.

Master data information

ICD Number: ICD06447501

Short description: Alarm box failed
Customer Name: HOSPITAL SAO VICENTE DE PAULO

Cl Description: MAGNETOM AERA
FuncLocation: 508-0040190732-0015

Material: 10432914
Serial Number: 141636

Configuration item: 1038344402
City: PASSO FUNDO

Country: BR
Division: MR

1st CSE: CONFORTO JULIO 21071628
Problem Issue Type: PPI

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 29, 2026.

Conforto, Julio

From: Siemens Healthineers RG BR QCA HQ Response
Sent: Monday, January 14, 2019 11:56 AM
To: Conforto, Julio (SHS AM LAM BRA CS SE SOU)
Subject: FW: ICD06447501, P2 Decision not to fix the problem, PM00163006, MR, MAGNETOM AERA, PPI, Alarm box failed

Olá Julio, boa tarde

Seguem informações referentes ao Complaint PM00163006.

Obrigada.

Atenciosamente,
Complaint Response Siemens Healthineers

Siemens Healthcare Diagnósticos Ltda
HC LAM BRA SV CS SO SC
Gestão de Complaints
Av Mutinga, 3800, CEP: 05110-902
São Paulo-SP, Brasilien
Tel.: +55 11 3908-1892
mailto:hq_response.br.team@siemens-healthineers.com
www.healthcare.siemens.com.br

-----Original Message-----
From: mr-complaint.team@siemens-healthineers.com [mailto:mr-complaint.team@siemens-healthineers.com]
Sent: quarta-feira, 9 de janeiro de 2019 13:17
To: Siemens Healthineers RG BR QCA HQ Response
Cc: Siemens Healthineers MR-Complaint
Subject: ICD06447501, P2 Decision not to fix the problem, PM00163006, MR, MAGNETOM AERA, PPI, Alarm box failed

---
Action - message from HQ

Activity Name: P2 Decision not to fix the problem
2019/01/09 16:15:08 - CASTIGLIONE, VINCENZO - Sent to IM: Yes # Sent to Country: Yes # Decision not to fix the problem:
Thank you for your input regarding our MR medical device. We would like to inform you that your input has been received and assessed at our MR Complaint Unit.

Our experts stated that issue is solved with VE11E software version.
A solution within VE11C is not planned.

We regret the inconvenience caused by this issue.

Decision by: DCU CCB
Decision date: 2019/01/09 16:12:59

Problem description

What is the problem?
It has been observed that the alarm box of the Magnetom Aera equipment does not alert the customer if the compressor stops due to failure of the secondary water flow, after the water pump stops due to overheating.

Master data information

ICD Number: ICD06447501

Short description: Alarm box failed
Customer Name: HOSPITAL SAO VICENTE DE PAULO

CI Description: MAGNETOM AERA
FuncLocation: 508-0040190732-0015

Material: 10432914
Serial Number: 141636

Configuration item: 1038344402
City: PASSO FUNDO

Country: BR
Division: MR

1st CSE: CONFORTO JULIO 21071628
Problem Issue Type: PPI

Conforto, Julio

From: Scarpace, Lisa <LSCARPA1@hfhs.org>
Sent: Friday, November 7, 2025 9:33 AM
To: Brown, Lisa; Leonhardt, Rhonda; Conforto, Julio; Oliver-Munoz, AJ; Brewart-Koda, Rose; Dolan, Michelle; Hearshen, David PHD; Nkongchu, Ken; Wu, Huimin; Rola Ferreira de Carvalho, Fabio; Almeida, Bernardo Deps; McGuckin, Joanna L.
Cc: Toth, Nicole; Air, Ellen
Subject: Re: Summary

This is a great way to start the weekend! Thank you for sharing!

Lisa

From: Brown, Lisa <lisabr@rad.hfh.edu>
Sent: Friday, November 7, 2025 8:47 AM
To: Leonhardt, Rhonda <rhondal@rad.hfh.edu>; Conforto, Julio <julio.conforto@siemens-healthineers.com>; Oliver-Munoz, AJ <AJ.OliverMunoz@trimedx.com>; Brewart-Koda, Rose <rose.koda@siemens-healthineers.com>; Dolan, Michelle <mdolan4@hfhs.org>; Hearshen, David PHD <daveh@rad.hfh.edu>; Nkongchu, Ken <kenn@rad.hfh.edu>; Wu, Huimin <huiminw@rad.hfh.edu>; Rola Ferreira de Carvalho, Fabio <fabio.carvalho@siemens-healthineers.com>; Almeida, Bernardo Deps <bernardo.deps@siemens-healthineers.com>; McGuckin, Joanna L. <Joanna.McGuckin@trimedx.com>
Cc: Scarpace, Lisa <LSCARPA1@hfhs.org>; Toth, Nicole <NTOTH1@hfhs.org>; Air, Ellen <EAIR1@hfhs.org>
Subject: RE: Summary

Awesome news!

Thank you,
Lisa

From: Leonhardt, Rhonda <rhondal@rad.hfh.edu>
Sent: Friday, November 7, 2025 8:16 AM
To: Conforto, Julio <julio.conforto@siemens-healthineers.com>; Oliver-Munoz, AJ <AJ.OliverMunoz@trimedx.com>; Brewart-Koda, Rose <rose.koda@siemens-healthineers.com>; Dolan, Michelle <mdolan4@hfhs.org>; Hearshen, David PHD <daveh@rad.hfh.edu>; Nkongchu, Ken <kenn@rad.hfh.edu>; Wu, Huimin <huiminw@rad.hfh.edu>; Rola Ferreira de Carvalho, Fabio <fabio.carvalho@siemens-healthineers.com>; Almeida, Bernardo Deps <bernardo.deps@siemens-healthineers.com>; McGuckin, Joanna L. <Joanna.McGuckin@trimedx.com>
Cc: Scarpace, Lisa <LSCARPA1@hfhs.org>; Brown, Lisa <lisabr@rad.hfh.edu>; Toth, Nicole <NTOTH1@hfhs.org>; Air, Ellen <EAIR1@hfhs.org>
Subject: Re: Summary

Julio,

Thanks for the update! This is great news.

Thank everyone!

Rhonda

From: Conforto, Julio <julio.conforto@siemens-healthineers.com>
Sent: Friday, November 7, 2025 7:11 AM
To: Oliver-Munoz, AJ <AJ.OliverMunoz@trimedx.com>; Brewart-Koda, Rose <rose.koda@siemens-healthineers.com>; Leonhardt, Rhonda <rhondal@rad.hfh.edu>; Dolan, Michelle <mdolan4@hfhs.org>; Hearshen, David PHD <daveh@rad.hfh.edu>; Nkongchu, Ken <kenn@rad.hfh.edu>; Wu, Huimin <huiminw@rad.hfh.edu>; Rola Ferreira de Carvalho, Fabio <fabio.carvalho@siemens-healthineers.com>; Almeida, Bernardo Deps <bernardo.deps@siemens-healthineers.com>; McGuckin, Joanna L. <Joanna.McGuckin@trimedx.com>
Subject: RE: Summary

Dear all,

I replaced the DGSU board in this overnight, turned on the equipment, it loaded the firmware and loaded. Then I turned off the equipment, waited a few minutes, and turned it on again. The equipment no longer shows the loadware and firmware message.

The problem was solved with the new DGSU board. Now you can shut down the equipment normally.

Thank you in advance.

Yours faithfully,
Julio Conforto
SHS AM NAM USA CS IV-CE R16
Siemens Medical Solutions USA, Inc.
Americas - North America - Region 16
400 West Morgan Road
Ann Arbor 48108, USA
Phone: +1 (734) 582-3416
mailto:julio.conforto@siemens-healthineers.com
www.siemens-healthineers.com



From: Oliver-Munoz, AJ <AJ.OliverMunoz@trimedx.com>
Sent: Thursday, November 6, 2025 4:41 PM
To: Brewart-Koda, Rose <rose.koda@siemens-healthineers.com>; Leonhardt, Rhonda <rhondal@rad.hfh.edu>; mdolan4@hfhs.org; Hearshen, David PHD <daveh@rad.hfh.edu>; Nkongchu, Ken <kenn@rad.hfh.edu>; Wu, Huimin <huiminw@rad.hfh.edu>; Rola Ferreira de Carvalho, Fabio <fabio.carvalho@siemens-healthineers.com>; Almeida, Bernardo Deps <bernardo.deps@siemens-healthineers.com>; Conforto, Julio <julio.conforto@siemens-healthineers.com>; McGuckin, Joanna L. <Joanna.McGuckin@trimedx.com>
Subject: Re: Summary

Thank you, Rhonda,

Adding Joanna for visibility.

A.J. Oliver-Muñoz, M.Eng

Supervisor, Clinical Engineering
Henry Ford Providence Southfield/Novi Hospitals

M 947-948-2940
W trimedx.com |**E** AJ.OliverMunoz@trimedx.com
5451 Lakeview Pkwy S Drive
Indianapolis, IN 46268

ISO/IEC 27001:2013 CERTIFIED
SOC 2 TYPE 2 CERTIFIED
ISO 13485:2016 CERTIFIED

From: Brewart-Koda, Rose <rose.koda@siemens-healthineers.com>
Sent: Thursday, November 6, 2025 4:29:19 PM
To: Leonhardt, Rhonda <rhondal@rad.hfh.edu>; Oliver-Munoz, AJ <aj.olivermunoz@trimedx.com>; mdolan4@hfhs.org <mdolan4@hfhs.org>; Hearshen, David PHD <daveh@rad.hfh.edu>; Nkongchu, Ken <kenn@rad.hfh.edu>; Wu, Huimin <huiminw@rad.hfh.edu>; Rola Ferreira de Carvalho, Fabio <fabio.carvalho@siemens-healthineers.com>; Almeida, Bernardo Deps <bernardo.deps@siemens-healthineers.com>; Conforto, Julio <julio.conforto@siemens-healthineers.com>
Subject: RE: Summary

Hi Rhonda,

Our CSE @Conforto, Julio can come on site tomorrow at 4am to replace part before the surgery.

Thanks,
Rose

From: Leonhardt, Rhonda <rhondal@rad.hfh.edu>
Sent: Thursday, November 6, 2025 3:51 PM
To: Oliver-Munoz, AJ <aj.olivermunoz@trimedx.com>; Brewart-Koda, Rose <rose.koda@siemens-healthineers.com>; Dolan, Michelle <mdolan4@hfhs.org>; Hearshen, David PHD <daveh@rad.hfh.edu>; Nkongchu, Ken <kenn@rad.hfh.edu>; Wu, Huimin <huiminw@rad.hfh.edu>; Rola Ferreira de Carvalho, Fabio <fabio.carvalho@siemens-healthineers.com>; Almeida, Bernardo Deps <bernardo.deps@siemens-healthineers.com>
Subject: Summary

Hello,

Summarizing the call from today,

1. The new board has been ordered and will arrive late tonight/early morning.
2. MRI scanner will **not** be restarted or shut down.
3. Rhonda will reach out to Rose and AJ with an estimated time when service can get access to the scanner.

Thank you.

Rhonda Leonhardt R.T.(R)(MR)
MRI Supervisor
HENRY FORD HEALTH
Henry Ford Hospital
2799 West Grand Blvd.
Detroit, MI 48202
313-916-3749 Office
rhondal@rad.hfh.edu



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Conforto, Julio

From: Rola Ferreira de Carvalho, Fabio
Sent: Friday, November 7, 2025 9:40 AM
To: Amos, Benjamin J.; Leonhardt, Rhonda
Cc: Brewart-Koda, Rose; Almeida, Bernardo Deps; Maximovich, Paul; Fritz, Keith; Duley, Matthew; Conforto, Julio
Subject: Re: MRI OR Room Bay 4

Hi Ben,

Thanks for the recognition. Julio was the one, in this morning over there. Than you Julio for your efforts.

Best regards,

Fabio

From: Amos, Benjamin J. <benjamin.amos@trimedx.com>
Sent: Friday, November 7, 2025 9:28:53 AM
To: Rola Ferreira de Carvalho, Fabio <fabio.carvalho@siemens-healthineers.com>; Leonhardt, Rhonda <rhondal@rad.hfh.edu>
Cc: Brewart-Koda, Rose <rose.koda@siemens-healthineers.com>; Almeida, Bernardo Deps <bernardo.deps@siemens-healthineers.com>; Maximovich, Paul <paul.maximovich@siemens-healthineers.com>; Fritz, Keith <keith.fritz@siemens-healthineers.com>; Duley, Matthew <Matthew.Duley@siemens-healthineers.com>; Conforto, Julio <julio.conforto@siemens-healthineers.com>
Subject: RE: MRI OR Room Bay 4

Fabio,

I see you FSR from early this morning. Thank you for your efforts and glad see to a positive result. Rose appreciate the push and efforts.

Rhonda, did they keep the surgery of for today or did it get moved?

Benjamin Amos
Senior Technician
Trimedx Imaging
Cell: 313-229-6444
Customer Service Line: 313-916-4787
Benjamin.Amos@trimedx.com

From: Rola Ferreira de Carvalho, Fabio <fabio.carvalho@siemens-healthineers.com>
Sent: Thursday, November 6, 2025 1:00 PM
To: Amos, Benjamin J. <benjamin.amos@trimedx.com>; Leonhardt, Rhonda <rhondal@rad.hfh.edu>
Cc: Brewart-Koda, Rose <rose.koda@siemens-healthineers.com>; Almeida, Bernardo Deps <bernardo.deps@siemens-healthineers.com>; Maximovich, Paul <paul.maximovich@siemens-healthineers.com>; Fritz, Keith <keith.fritz@siemens-healthineers.com>; Duley, Matthew <Matthew.Duley@siemens-healthineers.com>; Conforto, Julio <julio.conforto@siemens-healthineers.com>
Subject: MRI OR Room Bay 4

Good morning all,

This morning, I was working on MRI Bay 4 and followed the action plan recommended by our headquarters in Germany. As part of the troubleshooting process, we replaced the fiber-optic cable between the MARS (scanner computer) and the DGSU (Gradient Controller board), as well as the MARS computer itself.

Unfortunately, these actions did not resolve the issue. We are in close communication with our engineering team in Germany and currently suspect that the DGSU board may be defective (DOA). Each time the system is powered down or placed in standby, a firmware download is automatically initiated.

To minimize downtime, we have already ordered a replacement DGSU board through the fastest available channel. We expect to receive an ETA within a few hours. If the part arrives early enough today, the on-call engineer will perform the replacement immediately; otherwise, it will be replaced tomorrow.

At the moment, the system remains operational and can perform scans. The only impact is a longer startup time whenever the GPA cabinet is powered off or the system is placed in standby mode.
If the replacement takes place tomorrow, it will need to be done after your scheduled procedure. Could you please confirm whether you prefer to proceed with the surgery as planned or reschedule it to allow for the service activity?

With best regards,
Fabio Rola Ferreira de Carvalho

Siemens Medical Solutions USA, Inc.
Americas
North America
Region 16
SHS AM NAM USA CS IV-CE R16
400 West Morgan Road
Ann Arbor 48108, USA
Phone: +1 (734) 604-5513
mailto:fabio.carvalho@siemens-healthineers.com
www.siemens-healthineers.com



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Conforto, Julio

From: De Oliveira, Marcos Neves
Sent: Friday, February 5, 2016, 11:24 AM
To: Penha, Valeria De Luca
Cc: Conforto, Julio; Pradi, Silvio Luis; De Souza, Sergio Pereira
Subject: FW: KOZMA Acknowledgment

Importance: High

Silvio and Julio,

Congratulations on your dedication in handling this case!

Kind regards,

Marcos Neves

From: Marcia Ribeiro [mailto@kozma.com.br]
Sent: Friday, February 5, 2016, 12:21 PM
To: De Oliveira, Marcos Neves
Subject: KOZMA Acknowledgment
Importance: High

Dear Sir,

CLÍNICA RADIOLÓGICA DA CIDADE DE PASSO FUNDO LTDA., KOZMA DIAGNÓSTICO POR IMAGEM, Balneário Camboriú Unit 08, would like to express its sincere appreciation for Technician Silvio's dedication in resolving the issue involving the Magnetic Resonance Imaging (MRI) equipment component.

We would also like to thank Technician Julio for his efficiency and willingness to assist us, for without his commitment, we certainly would not have had a fully booked schedule today.

Thank you for your
cooperation and partnership.

We look forward to maintaining this channel of communication with Siemens on an ongoing basis.

Sincerely,

BC Unit Management

Marcia Ribeiro
Administration



I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: August 3, 2026

Conforto, Julio

From: De Oliveira, Marcos Neves
Sent: Friday, February 5, 2016 11:24 AM
To: Penha, Valeria De Luca
Cc: Conforto, Julio; Pradi, Silvio Luis; De Souza, Sergio Pereira
Subject: ENC: Agradecimento KOZMA BC

Importance: High

Silvio e Julio,

Parabéns pelo empenho em atender este caso!

Att,

Marcos Neves

De: Marcia Ribeiro [mailto:aribeiro@kozma.com.br]
Enviada em: sexta-feira, 5 de fevereiro de 2016 12:21
Para: De Oliveira, Marcos Neves
Assunto: Agradecimento KOZMA BC
Prioridade: Alta

Prezado,

A CLINICA RADIOLÓGICA DA CIDADE DE PASSO FUNDO LTDA, KOZMA DIAGNÓSTICO POR IMAGEM, unidade 08 de Balneário Camboriú, está imensamente agradecida pelo empenho do Técnico Silvio em resolver nosso problema com relação à peça da Ressonância Magnética.

Agradecemos também ao Técnico Júlio, pela eficiência e disposição no atendimento, sem esse empenho, com certeza hoje não estaríamos com a agenda cheia.

Obrigada pela sua
colaboração e parceira.

Estamos dispostos a manter este canal constantemente aberto com a SIEMENS.

Atenciosamente,

Gerencia Unidade BC

Marcia Ribeiro
Administração



NAME	GEBIET	EMPLOYEE ID	REGIONAL UNIT	BUSINESS UNIT	BONUS PAYOUT
JULIO CONFORTO	MR	33053578	SHS AM LAM CS BRA SE STH	HEALTHCARE	24.2%

Objectives	WEIGHT	MINIMUM	TARGET	MAXIMUM	Target Achievement	% of Target Achieved	SALARY MULTIPLES Target
REMOTE RESOLUTION RATE (%)	34.00%	0.4560	0.5700	0.6270	0.5885	1.03	0.96
FIRST-VISIT RESOLUTION RATE (%)	33.00%	0.5040	0.6300	0.6930	0.6485	1.03	0.95
SRS (%)	33.00%	0.7440	0.9300	1.0230	0.9500	1.02	0.91
				ACHIEVEMENT		0.94	
				NUMBER OF WEEKS IN ROTATION	13.4	13.43	
				BONUS AS A PERCENTAGE OF SALARY		24.2%	
Subtotal	100.00%						

APPROVAL	Employee	Immediate Supervisor	HR
	Conforto Julio Digitally signed by Conforto Julio DN: cn=Conforto Julio, o=Siemens, email=julio.conforto@siemens-healthineers.com Date: 2024.01.02 08:54:14 AM -03'00'	De Oliveira Marcos Neves Digitally signed by De Oliveira Marcos Neves Date: 2024.01.04 09:20:46 AM-03'00'	

I, Marina Viana Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that I have performed the professional translation of this document from Portuguese to English as a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Marina Viana

Date: August 3, 2026

NOME	GEBIET	MATRÍCULA	REGIONAL	UNE	PRÊMIO A SER PAGO
JULIO CONFORTO	MR	33053578	SHS AM LAM CS BRA SE STH HEALTHCARE		24,2%

Objetivos	PESO	MÍNIMO	TARGET	MÁXIMO	atingimento objetivo	% atingido objetivo	MULTIPLOS DE SALÁRIO objetivo
INDICE DE SOLUÇÃO REMOTA (%)	34,00%	0,4560	0,5700	0,6270	0,5885	1,03	0,96
PERCENTUAL DE SOLUÇÃO NA PRIMEIRA VISITA (%)	33,00%	0,5040	0,6300	0,6930	0,6485	1,03	0,95
SRS (%)	33,00%	0,7440	0,9300	1,0230	0,9500	1,02	0,91
				ATINGIMENTO		0,94	
				NÚMERO DE SEMANAS NO RODIZIO	13,4	13,43	
				PRÊMIO PERCENTUAL DE SALÁRIO		24,2%	
Subtotal	100,00%						

APROVAÇÃO	Colaborador	Superior Imediato	RHN
	Conforto Julio Assinado digitalmente por Conforto Julio DN: cn=Conforto Julio, o=Siemens, email=julio.conforto@siemens-healthineers.com Data: 2024.01.02 08:54:14 -03'00'	De Oliveira Marcos Neves Digitally signed by De Oliveira Marcos Neves Date: 2024.01.04 09:20:46 -03'00'	

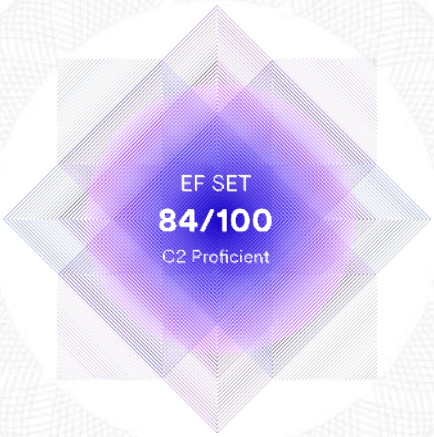
C.II - Second Prong: Evidence of English Proficiency

EF SET
EF STANDARD ENGLISH TEST

This is to certify that

Julio Conforto

has successfully completed the EF SET Certificate
and has earned the English level:



Awarded on:

28 Dec 2020

Understanding the results

EFSET	1-30	31-40	41-50	51-60	61-70	**71-100**
CEFR	A1 Beginner	A2 Elementary	B1 Intermediate	B2 Upper Intermediate	C1 Advanced	**C2** Proficient

Your level of English is **84/100** on the EF SET score scale and **C2 Proficient** according to the Common European Framework of Reference (CEFR). This score is calculated as an average of your reading and listening scores

Listening Section

83/100 **C2** Proficient

You are comfortable in all situations that require full comprehension of spoken English; you are almost never confused or searching for the meaning of words and phrases. You understand nuances of expression and tone, humor and emphasis in all live theatrical presentations, films or broadcast presentations in English.

- Can understand with ease any kind of spoken language, even when delivered at fast native speed, provided with time to get familiar with any regional or other accent.
- Can understand lectures and presentations with a high degree of colloquialism, regional usage and unfamiliar terminology.

Reading Section

85/100 **C2** Proficient

Your command of English allows you to read virtually any kind of text (factual, literary, technical) and accurately recognize and categorize style and tone. You can understand complex technical writing on unfamiliar subjects on a wide range of topics.

- Can read with ease virtually all forms of written language, including abstract, structurally or linguistically complex texts such as manuals, specialized articles and literary works.
- Can understand a wide range of long and complex texts, appreciating subtle distinctions of style, and implicit meaning.

C.II - Second Prong: Courses and Certifications

Certificate

Mr. Julio Conforto

has successfully passed the online test

Magnet Syphon Port De-Ice Virtual Training Certification

Completion date: February 11, 2026
Test number: MRTICE
GID: Z003B8DE

with the following contents:

- Magnet Turret Overview
- Leak detection and Ice observations
- Venting leak detection overview & importance of warming up post ramping and quench
- Quench valve leak detection
- Magnet pressure control Overview
- Magnet Ramping
- Syphon Port de-ice procedure
- Troubleshooting and escalations

This online test certificate has been automatically created by the system on February 11, 2026 and requires no signature.

Date: 11/02/2026
Identification Number: CBM2HNNTS - OXF
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

MAGNETOM Verio Certification

Completion date: February 3, 2026
Test number: MRTVERIWBT
GID: Z003B8DE

with the following contents:

- Ultra High Field MR Safety Issues
- 3T Image Quality Issues
- System Overview
- Components, Function and Service Procedures
- RF, Gradient and OR97 Magnet System

This online test certificate has been automatically created by the system on February 3, 2026 and requires no signature.

Date: 03/02/2026
Identification Number: CBMADEOTS - CSTC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the virtual class

SOMATOM Go Pre-Training (IBT)
CT2GOIBT

from November 13, 2023 to November 17, 2023

with the following contents:

- System Overview
- Power Distribution System
- Gantry and Generator
- X-Ray-Tube
- Data Measurement System
- Patient Handling System
- Cooling System
- Image Control & Reconstruction System
- SW Overview

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: CBEALR8TC - TDC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

SOMATOM go. Practical Training (Hands-On)
CT2GOHO

from November 20, 2023 to December 1, 2023
at Brazil Excellence Training Center - Factory

with the following contents:

- System Overview
- Power Distribution System
- Gantry and Generator
- X-ray tube
- Data Measurement System
- Patient Handling System
- Cooling System
- Image Reconstruction System
- Image Control System
- Service Software
- Hands-on
- Preventive Maintenance

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: CBEAPKVTC - TDC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

Service Essentials for SPECT Systems
MI1SPEESSE

from August 15, 2022 to August 23, 2022
at Erlangen, Education & Development Center

with the following contents:

- Principles of a Gamma Camera
- System and Modality specific Safety/Radiation Protection
- Principles in Nuclear Medicine
- What is tuning and peaking
- How to acquire an image and check the quality
- Principles in operating a Gamma Camera
- What is Nuclear Medicine used for
- Setup DICOM on the e.soft-/syngo MI Apps-Workplace
- Backup and restore
- SRS setup

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: CA4JA1OTC - CSTC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

Service Essentials for AX/XP Systems ADVANCED LEVEL
XP1XPESADV

from May 2, 2022 to May 13, 2022
at Brazil Excellence Training Center - Factory

with the following contents:

- • System functions on block diagram level and System design
- • Examination unit
- • Operation of the DFR systems and Fluorospot Compact
- • Measurements: dose rate, dose, kV, mAs, spatial resolution, contrast
- • DICOM outline and networking
- • Image receivers, Image processing, Generator principles
- • Image Quality, Organ programs and configuration
- • System Troubleshooting
- • In accordance with Product Field Service Strategy for Polymobil Plus, Polymobil III and Polymobil 10 participation of "XP/AX Service Essentials Training" and relevant field experience are pre-requisite for Servicing Polymobil Systems. Therefore Training part for Servicing Polymobil Plus, Polymobil III and Polymobil 10 is herewith fulfilled.

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: CA5PTWRTC - TDC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the virtual class

OCA CT System Essentials for Siemens CTs
CT1OCAIBT

from December 6, 2021 to December 10, 2021

with the following contents:

- Siemens CT System Overview
- System Components
  - Generator
  - DMS
  - Gantry stationary / rotating
  - Computer
  - PHS
- Basic Scanning methods
- Image Quality (Basics)
- Dose relevant topics
- Service relevant topics

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: CA2GZXUTC - TDC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

native / syngo User Interface Certification

Completion date: March 24, 2021
Test number: XXTSYNGOUP
GID: Z003B8DE

with the following contents:

- Introduction to new interface
- Login options and Service Key levels
- Access to Administration Portal
- Navigation and Toolbars
- Overview
- Troubleshooting
- Printing
- Viewing

This online test certificate has been automatically created by the system on April 7, 2025 and requires no signature.

Date: 07/04/2025
Identification Number: CAWINLUTS - CSTC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

MAGNETOM Aera/Skyra and Avanto fit/Skyra fit Upgrade Course
MR5AERASKY

from June 17, 2019 to June 28, 2019
at EDC Gregson Dr., Cary, USA (TDC)

with the following contents:

- Product Presentation
- MR Safety Regulations
- System / Software Introduction
- System Architecture: Software, Host, MARS & Control, RF and Gradient System, Patient Table and Patient Handling, Cooling, Power Distribution
- Magnet System (OR98, OR99/OR103): Execution ERDU Test, Theory of Post Quench Procedure, Demonstration Shimming
- Service Software, Test Tools, Tune Up, QA Tests
- Preventive Maintenance and Safety Related Tests

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: CAONUROTC - TDC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

MAGNETOM Avanto and Espree System Course
MR2AVANTO

from July 31, 2017 to August 18, 2017
at Erlangen, Roethelheimpark

with the following contents:

- Product Presentation
- MR Safety Regulations
- System / Software Introduction
- System Architecture: Software, Host, Measurement Control and Image Reconstruction, RF and Gradient System, Patient Table and Patient Handling, Cooling, Power Distribution
- Magnet System (OR105, OR122): Ramping, Filling, Post Quench Procedure, ERDU Test, Demonstration Shimming
- Service Software, Test Tools, Tune Up, QA Tests
- Preventive Maintenance and Safety Related Tests

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: AAGIBVRTC - CSTC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

Service Essentials for CT
CT1CTESSEN

from February 22, 2016 to March 4, 2016
at Brazil Excellence Training Center - Factory

with the following contents:

- General safety information
- X-ray fundamentals
- CT Principle
- CT basics
- Overview main CT components
- CT systems
- Tune up
- Image quality check
- System operation

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: CAFJX6GTC - CSTC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

MAGNETOM ESSENZA System Training
MR2ESSENZA

from June 8, 2015 to June 26, 2015
at EDC Gregson Dr., Cary, USA (TDC)

with the following contents:

- MR Safety instructions
- System Overview
- System Operation and basic applications
- RF and Gradient system
- Magnet (Magnet Supervision, Ramping, Shimming, Filling)
- Post quench procedures
- Measurement and reconstruction system (MARS)
- Power distribution
- Cooling system
- QA and Tune up procedures
- Maintenance procedures
- System troubleshooting

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: AAFUZEFTC - TDC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

Service Essentials for MR
MR1MRESSEN

from March 2, 2015 to March 13, 2015
at EDC Gregson Dr., Cary, USA (TDC)

with the following contents:

- Safety Aspects of MRI
- System Overview and Handling
- Principles of Magnetic Resonance Imaging
- Patient Related Adjustments
- Functional Principles of the Hardware Components
- Overview of Service Processes

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: AAFUZDZTC - TDC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

SYNGO incl. LEONARDO Workstation
XX2SYNGO

from February 23, 2015 to February 27, 2015
at EDC MacAlyson Ct., Cary, USA (TDC + DX)

with the following contents:

- Overview syngo and LEONARDO
- Basic syngo operation
- Hardware and Software versions
- Service strategy, service levels
- Licensing
- Database
- LEONARDO Software installation
- Refresh network and DICOM basics
- Syngo configuration
- Backup & Restore, Fast Image Backup & Restore
- Syngo service UI
- SIEMENS Remote Services

Siemens Healthineers
Education & Development Center

Michael Dib
Service Operations Head

Date: 07/04/2025
Identification Number: AAFUZDVTC - TDC
Intranet: https://intranet.training.healthcare.siemens.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

Introduction to MAGNETOM Spectra (Certification)

Completion date: January 14, 2026
Test number: MRTSPECTRA
GID: Z003B8DE

with the following contents:

- System overview
- Main components and their functions
- Differences of:
- the Host
- Mars/Control
- RF
- PTAB
- Gradient
- OR 103 magnet
- Cooling and Power Distribution System
- SW Information

This online test certificate has been automatically created by the system on January 14, 2026 and requires no signature.

Date: 14/01/2026
Identification Number: CBL61VVTS - CSTC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

native/syngo for MR: Introduction to Numaris/X Certification

Completion date: March 9, 2026
Test number: SYTMRNATSY
GID: Z003B8DE

with the following contents:

- Features common to all native/syngo based modalities incl. Numaris/X Overview
- - Clinical User Interface
- - Configuration Panel
- - Administration Panel
- - User and Role management
- - Configuring network and DICOM connectivity

This online test certificate has been automatically created by the system on March 9, 2026 and requires no signature.

Date: 09/03/2026
Identification Number: CBMYSWOTS - CSTC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

Smart Remote Services Essentials Certification

Completion date: January 12, 2026
Test number: SYTSRSESSE
GID: Z003B8DE

with the following contents:

- - Overview over concept and function of SRS
- - Setting IP addresses, subnet masks, default gateways and static routes; outside NAT
- - SRS Router Types and IBC
- - Registering the Managed Node Package
- - The SRS Checklist
- - Get an SRS account
- - Connect to service software, admin portal, syngo Remote Assist, Remote Desktop, transfer files
- - Support Resources

This online test certificate has been automatically created by the system on January 14, 2026 and requires no signature.

Date: 14/01/2026
Identification Number: CBL61VYTS - CSTC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

MAGNETOM Cima.X/Cima.X Fit delta training from MAGNETOM Vida/Sola Certification

Completion date: April 29, 2026
Test number: MRTCIMAX
GID: Z003B8DE

with the following contents:

- Hardware overview
- Gradient System
- RF System
- System Cooling components
- Magnet System
- Host & MARS
- Service SW

This online test certificate has been automatically created by the system on April 29, 2026 and requires no signature.

Date: 29/04/2026
Identification Number: CBNR7URTS - CSTC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

MAGNETOM Vida/Sola delta training from MAGNETOM Aera/Skyra Certification

Completion date: April 10, 2026
Test number: MRTBIOMTRX
GID: Z003B8DE

with the following contents:

- MR Safety Regulations
- System Introduction and Architecture
- System Operation
- Administration Portal
- Tune Up, QA Tests
- Preventive Maintenance and Safety Related Tests
- Fit upgrades and Viato.Mobile
- For systems: MAGNETOM Vida, Sola, Lumina, Seara, Altea, Vida Fit, Sola Fit, Skyra Fit with Biomatrix, Avanto Fit with BioMatrix and Viato.Mobile systems.

This online test certificate has been automatically created by the system on April 10, 2026 and requires no signature.

Date: 10/04/2026
Identification Number: CBM2K4LTS - TDC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

MR Safety Knowledge Assessment - Certification

Completion date: February 16, 2026
Test number: MRTMRSAFET
GID: Z003B8DE

with the following contents:

- Magnet Related Hazards
- UHF specific Hazards (directive 2013/35/UE)
- Cryogen and Compressed Gas Hazards
- Electrical Hazards
- Toxic Material Hazards
- Service Tools and Phantom Hazards
- Mechanical Hazards
- Acoustic Hazard

This online test certificate has been automatically created by the system on February 16, 2026 and requires no signature.

Date: 16/02/2026
Identification Number: CBM81T7TS - CSTC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

MR Safety Knowledge Assessment

Completion date: February 19, 2015
Test number: MRTMRSAFET
GID: Z003B8DE

with the following contents:

- Magnetic hazards
- Cryogen hazards
- Electrical hazards
- Laser hazards
- General safety aspects
- As part of this training personnel shall be made aware of directive 2013/35/UE and the risks in relation to electro magnetic fields.

This online test certificate has been automatically created by the system on February 16, 2026 and requires no signature.

Date: 16/02/2026
Identification Number: AAFUZEETS - TDC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has attended the course

Spike Troubleshooting Course
MR3SPIKETS

from September 9, 2026 to September 11, 2026
at EDC Gregson Dr., Cary, USA (TDC)

with the following contents:

- MR Safety regulations
- Physics behind Spikes
- Raw data analysis
- Spike Troubleshooting

Siemens Healthineers
Education & Development Center

Renato Cerveira
Head of Service Operations

Date: 14/09/2026
Identification Number: CBOZ9UPTC - TDC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

Certificate

Mr. Julio Conforto

has successfully passed the online test

MR Imaging Quality WBT Certification

Completion date: August 26, 2026
Test number: MRTMRIQWBT
GID: Z003B8DE

with the following contents:

- Review of MR Basics
- Key Parameters of MR Image Quality
- Causes and Influences in MR Image Quality
- Hardware
- Environment
- MR method dependent effects
- Physiological effects
- Protocol Parameters
- Special imaging techniques: Spectral Fat Saturation and EPI

This online test certificate has been automatically created by the system on September 14, 2026 and requires no signature.

Date: 14/09/2026
Identification Number: CBNO8BWTS - CSTC
Intranet: https://intranet.training.siemens-healthineers.com
Internet: https://training-cloud.siemens-healthineers.com

SIEMENS Healthineers

C.II - Second Prong: Participarion in a Social Project

CAMPO MOURÃO COMMERCIAL
AND INDUSTRIAL ASSOCIATION

INTEGRADO
SCHOOL AND COLLEGE

CERTIFICATE

JÚLIO CONFORTO

Participated in the SOCIAL RESPONSIBILITY PROJECT:
"PRODUCTION OF DISPOSABLE DIAPERS FOR DONATION TO UNDERPRIVILEGED COMMUNITIES IN THE CITY OF CAMPO MOURÃO", with a workload of 10 hours. Event organized by ACICAM - Campo Mourão Commercial and Industrial Association and INTEGRATED UNIVERSITY CENTER OF CAMPO MOURÃO, held in the month of JANUARY 2013.

Campo Mourão, JANUARY 11, 2013

Marta Paulina Kaiser Leitner
Project Coordinator
Campo Mourão Commercial and Industrial Association

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 23, 2026.

ASSOCIAÇÃO COMERCIAL E INDUSTRIAL DE CAMPO MOURÃO

INTEGRADO
COLÉGIO E FACULDADE

CERTIFICADO

JÚLIO CONFORTO

Participou do PROJETO DE RESPONSABILIDADE SOCIAL:
" PRODUÇÃO DE FRALDAS DESCARTÁVEIS PARA DOAÇÃO A COMUNIDADES CARENTES DO MUNICÍPIO DE CAMPO MOURÃO", com 10 horas de duração. Evento promovido pela ACICAM – Associação Comercial e Industrial de Campo Mourão e FACULDADE INTEGRADO DE CAMPO MOURÃO, realizado no mês de JANEIRO de 2013.

Campo Mourão, 11 de JANEIRO de 2013

Marta Paulina Kaiser Leitner
Coordenadora do Projeto
Associação Comercial e Industrial de Campo Mourão

CAMPO MOURÃO COMMERCIAL
AND INDUSTRIAL ASSOCIATION

INTEGRADO
SCHOOL AND COLLEGE

CERTIFICATE

JÚLIO CONFORTO

Participated in the SOCIAL RESPONSIBILITY PROJECT:
"PRODUCTION OF DISPOSABLE DIAPERS FOR DONATION TO UNDERPRIVILEGED COMMUNITIES IN THE CITY OF CAMPO MOURÃO", with a workload of 8 hours. Event organized by ACICAM - Campo Mourão Commercial and Industrial Association and INTEGRATED UNIVERSITY CENTER OF CAMPO MOURÃO, held in the month of NOVEMBER 2013.

Campo Mourão, NOVEMBER 14, 2013

Marta Paulina Kaiser Leitner
Project Coordinator
Campo Mourão Commercial and Industrial Association

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ Date: July 23, 2026.

ASSOCIAÇÃO COMERCIAL E INDUSTRIAL DE CAMPO MOURÃO

INTEGRADO
COLÉGIO E FACULDADE

CERTIFICADO

JÚLIO CONFORTO

Participou do PROJETO DE RESPONSABILIDADE SOCIAL:
"PRODUÇÃO DE FRALDAS DESCARTÁVEIS PARA DOAÇÃO A COMUNIDADES CARENTES DO MUNICÍPIO DE CAMPO MOURÃO", com 8 horas de duração. Evento promovico pela ACICAM – Associação Comercial e Industrial de Campo Mourão e FACULDADE INTEGRADO DE CAMPO MOURÃO, realizado no mês de NOVEMBRO de 2013.

Campo Mourão, 14 de NOVEMBRO de 2013

Marta Paulina Kaiser Leitner
Coordenadora do Projeto
Associação Comercial e Industrial de Campo Mourão

CAMPO MOURÃO COMMERCIAL
AND INDUSTRIAL ASSOCIATION

INTEGRADO
SCHOOL AND COLLEGE

CERTIFICATE

JÚLIO CONFORTO

Participated in the SOCIAL RESPONSIBILITY PROJECT:
"PRODUCTION OF DISPOSABLE DIAPERS FOR DONATION TO UNDERPRIVILEGED COMMUNITIES IN THE CITY OF CAMPO MOURÃO", with a workload of 8 hours. Event organized by ACICAM - Campo Mourão Commercial and Industrial Association and INTEGRATED UNIVERSITY CENTER OF CAMPO MOURÃO, held in the month of JUNE 2012.

Campo Mourão, JUNE 7, 2012

Maria Paulina Kaiser Leitner
Project Coordinator
Campo Mourão Commercial and Industrial Association

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 23, 2026.

ASSOCIAÇÃO COMERCIAL E INDUSTRIAL DE CAMPO MOURÃO

INTEGRADO
COLÉGIO E FACULDADE

CERTIFICADO

JÚLIO CONFORTO

Participou do PROJETO DE RESPONSABILIDADE SOCIAL:
" PRODUÇÃO DE FRALDAS DESCARTÁVEIS PARA DOAÇÃO A COMUNIDADES CARENTES DO MUNICÍPIO DE CAMPO MOURÃO", com 8 horas de duração. Evento promovido pela ACICAM – Associação Comercial e Industrial de Campo Mourão e FACULDADE INTEGRADO DE CAMPO MOURÃO, realizado no mês de JUNHO de 2012.

Campo Mourão, 07 de JUNHO de 2012

Marta Paulina Kaiser Leitner
Coordenadora do Projeto
Associação Comercial e Industrial de Campo Mourão

CAMPO MOURÃO COMMERCIAL
AND INDUSTRIAL ASSOCIATION

INTEGRADO
SCHOOL AND COLLEGE

CERTIFICATE

JÚLIO CONFORTO

Participated in the SOCIAL RESPONSIBILITY PROJECT:
"PRODUCTION OF DISPOSABLE DIAPERS FOR DONATION TO UNDERPRIVILEGED COMMUNITIES IN THE CITY OF CAMPO MOURÃO", with a workload of 12 hours. Event organized by ACICAM - Campo Mourão Commercial and Industrial Association and INTEGRATED UNIVERSITY CENTER OF CAMPO MOURÃO, held in the month of JUNE 2013.

Campo Mourão, JUNE 11, 2013

Marta Paulina Kaiser Leitner
Project Coordinator
Campo Mourão Commercial and Industrial Association

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ Date: July 23, 2026.

ASSOCIAÇÃO COMERCIAL E INDUSTRIAL DE CAMPO MOURÃO

INTEGRADO
COLÉGIO E FACULDADE

CERTIFICADO

JÚLIO CONFORTO

Participou do PROJETO DE RESPONSABILIDADE SOCIAL:
" PRODUÇÃO DE FRALDAS DESCARTÁVEIS PARA DOAÇÃO A COMUNIDADES CARENTES DO MUNICÍPIO DE CAMPO MOURÃO", com 12 horas de duração. Evento promovido pela ACICAM – Associação Comercial e Industrial de Campo Mourão e FACULDADE INTEGRADO DE CAMPO MOURÃO, realizado no mês de JUNHO de 2013.

Campo Mourão, 11 de JUNHO de 2013

Marta Paulina Kaiser Leitner
Coordenadora do Projetc
Associação Comercial e Industrial de Campo Mourão

CAMPO MOURÃO COMMERCIAL AND INDUSTRIAL ASSOCIATION

INTEGRADO
SCHOOL AND COLLEGE

CERTIFICATE

JÚLIO CONFORTO

Participated in the SOCIAL RESPONSIBILITY PROJECT:
"PRODUCTION OF DISPOSABLE DIAPERS FOR DONATION TO UNDERPRIVILEGED COMMUNITIES IN THE CITY OF CAMPO MOURÃO", with a workload of 37 hours. Event organized by ACICAM - Campo Mourão Commercial and Industrial Association and INTEGRATED UNIVERSITY CENTER OF CAMPO MOURÃO, held in the month of January 2013.

Campo Mourão, January 11, 2013

Marta Paulina Kaiser Leitner
Project Coordinator
Campo Mourão Commercial and Industrial Association

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 23, 2026.

ASSOCIAÇÃO COMERCIAL E INDUSTRIAL DE CAMPO MOURÃO

INTEGRADO
COLÉGIO E FACULDADE

CERTIFICADO

JÚLIO CONFORTO

Participou do **PROJETO DE RESPONSABILIDADE SOCIAL:**
"PRODUÇÃO DE FRALDAS DESCARTÁVEIS PARA DOAÇÃO A COMUNIDADES CARENTES DO MUNICÍPIO DE CAMPO MOURÃO", com 37 horas de duração. Evento promovido pela ACICAM – Associação Comercial e Industrial de Campo Mourão e FACULDADE INTEGRADO DE CAMPO MOURÃO, realizado no mês janeiro de 2013.

Campo Mourão, 11 de janeiro de 2013.

Marta Paulina Kaiser Leitner
Coordenadora do Projeto
Associação Comercial e Industrial de Campo Mourão

C.II - Second Prong: Reviews, Articles, and Reports

IMPLEMENTATION OF AN FPGA-BASED SPEED AND POSITION CONTROLLER FOR ENGINES APPLIED TO MOBILE ROBOTICS

Authors

JÚLIO CONFORTO	*(4)*
MARCOS BANHETI RABELLO VALLIM	*(8)*
ALVARO CEZAR PARIETTI FILHO	*(4)*

Category

Undergraduate Research Project

Introduction

Automatic control has played a vital role in the advancement of engineering and science and is extremely important for robotics systems, which require efficient speed and position control (OGATA, 1998; DORF, 2001).

This works aims to contribute to the development of an educational robotics platform for the *Ninho de Pardais* Project (VALLIM et al., 2009). Within this context, it proposes the implementation of a control module on an FPGA for direct current (DC) engines. This module consists of a speed controller and a position controller, allowing the implementation and tuning of a proportional controller and an ON-OFF controller.

Objective

To develop a speed and position control system for direct current engines to be applied to an educational robotics platform for the *Ninho de Pardais* Project.

Materials and Methods

A DE2 development board, a DC engine, and a quadrature encoder were used in the development of this module.

The DE2 development board supports task execution and data processing. An algorithm was developed for the board to perform sensor reading PWM control, proportional control, and electric braking control. An interface is also required to enable communication between the development board and the engines and sensors, therefore, a power driver was designed.

The power driver provides signal isolation and input/output signal conditioning. Its engine drive system enables operation in all four quadrants: clockwise rotation, counterclockwise rotation, clockwise braking, and counterclockwise braking.

Results and Discussion

Simulink was used to validate the speed controller. The standard input signals applied to the controller were the step, ramp, and sinusoidal signals. The steady-state error for the step input was 5.03*10-3, whereas the speed error for the ramp and sinusoidal inputs was 0.176. Analysis of these values indicates that the system exhibited satisfactory performance, remaining stable and presenting low steady-state and speed errors for the intended application. Based on this analysis, the controller was implemented on the FPGA.

The proportional controller has an inherent characteristic whereby the speed variable deviates from the desired value whenever the load demand changes, that is, when the load applied to the engine shaft varies, causing the controller output to settle at a new operating point. This deviation of the variable from the desired value is known as permanent deviation, steady-state error, or offset (PATANÉ, 2008).

Conclusion

For the speed and electric braking control of the DC engine, a closed-loop system was developed using proportional and ON-OFF control techniques. These controllers initially produced satisfactory results, however, because they are intended for use in an educational robotics platform, a more efficient and effective system will need to be developed. As future work, the application of a proportional-integral controller to both control systems is proposed.

References

BIM, Edson. Máquinas elétricas e acionamento: uma introdução. Rio de Janeiro: Campus; Elsevier, 2009.
COELHO, A.A.R. e Coelho, L.Identificação de sistemas dinâmicos lineares.Didáctica (Editora da UFSC), Editora da UFSC, 2004.
DORF, Richard C.; BISHOP, Robert H. Sistemas de Controle Modernos. 8. ed. LTC, 2001.
OGATA, Katsuhiko. Engenharia de Controle Moderno. 3. ed. LTC, 1998.

Support

ARAUCÁRIA FOUNDATION

Legend

(4) Undergraduate Student - Federal Technological University of Paraná - Cornélio Procópio
(8) Faculty Member - Federal Technological University of Paraná - Cornélio Procópio
(4) Undergraduate Student - Federal Technological University of Paraná - Cornélio Procópio

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: August 6, 2026.**

IMPLEMENTAÇÃO DE UM CONTROLADOR DE VELOCIDADE E POSIÇÃO BASEADO EM FPGA PARA MOTORES APLICADOS EM ROBÓTICA MÓVEL

Autores

JÚLIO CONFORTO	*(4)*
MARCOS BANHETI RABELLO VALLIM	*(8)*
ALVARO CEZAR PARIETTI FILHO	*(4)*

Categoria

Trabalho de Iniciação Científica

Introdução

O controle automático tem desempenhado um papel vital no avanço da engenharia e da ciência, sendo de extrema importância para sistemas robóticos, que carece de um controle eficiente de velocidade e posição (OGATA, 1998; DORF, 2001).

Este trabalho tem a finalidade de contribuir no desenvolvimento de uma plataforma de robótica educacional para o Projeto Ninho de Pardais (VALLIM et al., 2009). Dentro deste contexto, propõe-se a implementação no FPGA de um módulo de controle, aplicado para motores de corrente contínua. Este módulo é composto por um controlador de velocidade e de posição, que permite a introdução e sintonia de um controlador de ação proporcional e de um controlador ON-OFF.

Objetivos

Desenvolver um sistema de controle de velocidade e posição para motores de corrente contínua, o qual será aplicado numa plataforma de robótica educacional para o Projeto Ninho de Pardais.

Material e Métodos

No desenvolvimento deste módulo foram utilizados uma placa embarcada DE2, um motor CC e um sensor encoder regular defasado.

A placa embarcada DE2 auxilia na execução de atividades e interpretação de dados. Através dela foi arquitetado um algoritmo que realiza a leitura de sensores, o controle de PWM, o controle proporcional e o controle de frenagem elétrica. Também é necessário utilizar uma interface que efetua a comunicação entre a placa embarcada e os motores e os sensores, por isso foi projetado um driver de potência.

O driver de potência permite a isolação e o condicionamento de sinais de entrada e de saída. O seu sistema de acionamento para motores fornece uma operação nos quatro quadrantes: sentido horário, sentido anti-horário, frenagem horária e frenagem anti-horária.

Resultados e Discussão

Foi utilizado o Simulink para efetuar a validação do controle de velocidade. Os sinais padrões aplicados na entrada do controlador foram o degrau, a rampa e a senóide. O erro de regime estacionário a entrada degrau foi de 5,03*10-3, enquanto o erro de velocidade à entrada rampa e à senóide foi de 0,176. Analisando estes valores, percebe-se que o sistema possui uma resposta satisfatória, sendo estável e com um erro de regime estacionário e velocidade pequena para aplicação. Apartir desta análise, o controlador foi implementado no processador FPGA.

O controlador proporcional possui uma característica intrínseca, que faz com que a variável velocidade afaste-se do valor desejado quando existir variação na demanda decarga, ou seja, variação de carga no eixo do motor, levando a saída do controlador para uma nova posição. Este desvio na variável em relação ao valor desejado é chamado de desvio permanente, erro de regime ou offset (PATANÉ, 2008).

Conclusão

Para os controles de velocidade e frenagem elétrica do motor CC, desenvolveu-se um sistema em malha fechada utilizando as tecnicas de controle proporcional e ON-OFF. Estes controles apresentaram inicialmente resultados satisfatórios, no entanto, como serão empregados numa plataforma de robótica educacional, será preciso desenvolver um sistema mais eficiente e eficaz. Como proposta de continuidade, visa-se aplicar um controlador proporcional-integrativo para ambos os controles.

Referências

BIM, Edson. Máquinas elétricas e acionamento: uma introdução. Rio de Janeiro: Campus; Elsevier, 2009.
COELHO, A.A.R. e Coelho, L.Identificação de sistemas dinâmicos lineares.Didáctica (Editora da UFSC), Editora da UFSC, 2004.
DORF, Richard C.; BISHOP, Robert H. Sistemas de Controle Modernos. 8. ed. LTC, 2001.
OGATA, Katsuhiko. Engenharia de Controle Moderno. 3. ed. LTC, 1998.

Apoio

FUNDAÇÃO ARAUCÁRIA

Legenda

(4) Aluno Graduação - Universidade Tecnológica Federal do Paraná - Cornélio Procópio
(8) Docente - Universidade Tecnológica Federal do Paraná - Cornélio Procópio
(4) Aluno Graduação - Universidade Tecnológica Federal do Paraná - Cornélio Procópio

North Paraná University

Accredited by Federal Decree of July 3, 1997.

Certificate

We hereby certify that **Julio Conforto** participated in the paper "*IMPLEMENTATION OF AN FPGA-BASED SPEED AND POSITION CONTROLLER FOR ENGINES APPLIED TO MOBILE ROBOTICS*", authored by Júlio Conforto, Marcos Banheti Rabello Vallim, and Alvaro Cezar Parietti Filho, presented at the 5th National Congress on University Outreach / 14th Unopar Scientific Activities Meeting, held from October 26 to 28, 2011.

Londrina, November 8, 2011.

-----// signature //-----
Hélio H. Suguimoto
Vice-President of Research and Graduate Studies

-----// signature //-----
Sônia Maria Mendes França
Vice-President of Outreach

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura.

_____ **Date: August 4, 2026.**

UNOPAR

Universidade Norte do Paraná

Credenciada pelo Decreto Federal de 03 de julho de 1997.

Certificado

Certificamos que **Júlio Conforto** participou do trabalho "*IMPLEMENTAÇÃO DE UM CONTROLADOR DE VELOCIDADE E POSIÇÃO BASEADO EM FPGA PARA MOTORES APLICADOS EM ROBÓTICA MÓVEL*", de autoria de Júlio Conforto, Marcos Banheti Rabello Vallim e Alvaro Cezar Parietti Filho, apresentado no 5° Congresso Nacional de Extensão Universitária / 14° Encontro de Atividades Científicas da Unopar, realizado no período de 26 a 28 de outubro de 2011.

Londrina, 08 de novembro de 2011.

Hélio H. Suguimoto
Pró-Reitor de Pesquisa e Pós-Graduação

Sônia Maria Mendes França
Pró-Reitora de Extensão

North Paraná University

Accredited by Federal Decree of July 3, 1997.

Certificate

We hereby certify that the paper "**IMPLEMENTATION OF AN FPGA-BASED SPEED AND POSITION CONTROLLER FOR ENGINES APPLIED TO MOBILE ROBOTICS**", authored by Júlio Conforto, Marcos Banheti Rabello Vallim, and Alvaro Cezar Parietti Filho, received an Honorable Mention at the 5th National Congress on University Outreach / 14th Unopar Scientific Activities Meeting, held from October 26 to 28, 2011, at the North Paraná University.

Londrina, October 28, 2011.

-----// signature //-----
Hélio H. Suguimoto
Vice-President of Research and Graduate Studies

-----// signature //-----
Sônia Maria Mendes França
Vice-President of Outreach

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura.

_____ **Date: August 4, 2026.**

UNOPAR

Universidade Norte do Paraná

Credenciada pelo Decreto Federal de 03 de julho de 1997.

Certificado

Certificamos que o trabalho "**IMPLEMENTAÇÃO DE UM CONTROLADOR DE VELOCIDADE E POSIÇÃO BASEADO EM FPGA PARA MOTORES APLICADOS EM ROBÓTICA MÓVEL**", de autoria de Júlio Conforto, Marcos Banheti Rabello Vallim e Alvaro Cezar Parietti Filho, recebeu Menção Honrosa do 5° Congresso Nacional de Extensão Universitária / 14° Encontro de Atividades Científicas da Unopar da UNOPAR, realizado no período de 26 a 28 de outubro de 2011 na Universidade Norte do Paraná.

Londrina, 28 de outubro de 2011.

Hélio H. Suguimoto
Pró-Reitor de Pesquisa e Pós-Graduação

Sônia Maria Mendes França
Pró-Reitora de Extensão

Outlook

Request for paper presentation certificates

From eac@unopar.br <eac@unopar.br>
Date Thurs, 10/11/2012 09:13 a.m.
To julio.conforto@hotmail.com <julio.conforto@hotmail.com>; eac@unopar.br <eac@unopar.br>



REQUEST FOR PAPER PRESENTATION CERTIFICATES

- All certificates will be sent starting on 11/12/2012 to the program coordinators (for Unopar authors) or by mail (for external authors), to the address provided in the author registration.
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Dear, JULIO CONFORTO

Your certificate request has been successfully submitted under request number **201290765799**. To receive the certificate, please pay the bank slip (Slip number: **168192612159556826**, Due date: **10/29/2012**).
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Paper(s) selected for this request:
057581 - FPGA IMPLEMENTATION OF A PROPORTIONAL-INTEGRAL CONTROLLER FOR SPEED AND POSITION CONTROL SYSTEMS OF ENGINES APPLIED TO MOBILE ROBOTICS

Sincerely,
Scientific Committee

--
This message has been scanned by the antivirus system
and is believed to be free of threats.

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: August 6, 2026.**

Outlook

Solicitação de certificado de apresentação de trabalhos

De eac@unopar.br <eac@unopar.br>
Data Qui, 11/10/2012 09:13
Para julio.conforto@hotmail.com <julio.conforto@hotmail.com>; eac@unopar.br <eac@unopar.br>



SOLICITAÇÃO DE CERTIFICADO DE APRESENTAÇÃO DE TRABALHOS

- Todos certificados serão encaminhados a partir do dia 12/11/2012 às coordenações de curso (autor da Unopar) ou pelo correio (autor externo), para o endereço informado no cadastro de autor.
- A solicitação de certificado poderá ser realizada somente até o dia **26/10/2012**.
- O certificado só será entregue aos trabalhos apresentados. Não haverá devolução do valor pago.

Prezado(a), JULIO CONFORTO

Sua solicitação de certificado foi efetivada com o número do pedido **201290765799**.
Para receber o certificado, efetue o pagamento do boleto bancário (Número do boleto: **168192612159556826**, Data de vencimento: **29/10/2012**).
Para reimpressão do boleto bancário, acesse o site do evento (Trabalhos Científicos > Certificados / Anais > Reimpressão do boleto) e informe o número do pedido acima

Trabalho(s) selecionado(s) para esta solicitação:
057581 - IMPLEMENTAÇÃO NO FPGA DE UM CONTROLADOR PROPORCIONAL-INTEGRATIVO PARA OS SISTEMAS DE VELOCIDADE E POSIÇÃO DE MOTORES APLICADOS NA ROBÓTICA MÓVEL

Atenciosamente,
Comissão Científica

--
Esta mensagem foi verificada pelo sistema de antivírus e
acredita-se estar livre de perigo.

FPGA IMPLEMENTATION OF A PROPORTIONAL-INTEGRAL CONTROLLER FOR SPEED AND POSITION CONTROL SYSTEMS OF ENGINES APPLIED TO MOBILE ROBOTICS

Authors

JULIO CONFORTO *(4)*
MARCOS BANHETI RABELLO VALLIM *(8)*

Category

Undergraduate Research Project

Introduction

Mobile robots have played a vital role in the advancement of civilization. Through their freedom of movement, they can perform tasks that require flexibility, such as carrying out inspections, transporting goods in hospitals, factories, ports, warehouses, and mining operations, and exploring inhospitable environments, such as outer space and oceans, among others. To operate effectively, they must be capable of maintaining system stability and precision in controlling the position and speed of their engines. Therefore, this work aims to present the implementation of a position and speed controller on an FPGA applied to DC engines. This application contributes to the development of an educational robotics platform for the *Ninho de Pardais* Project (Vallim et al., 2009).

Objective

Implement a discretized Proportional-Integral (PI) controller on an FPGA to control the position and speed of DC engines.

Materials and Methods

The Proportional-Integral (PI) controller is responsible for reducing the steady-state error, being characterized as a phase-lag compensator (Ogata, 2010).

where Kp is the proportional gain and Ti is the integral time. The parameters Kp and Ti are referred to as controller tuning parameters (Ogata, 2010).

The use of this controller is due to the fact that it is easy to implement and versatile, with the ability to modify the transient and steady-state behaviors of the controlled process.

Results and Discussion

This section focuses on the results obtained from the development of the controllers.

The engine control process for the speed and position systems is divided into three stages: the reference signal (input), the actuator (PI controller action), and feedback (sensor reading). The controller reference signal is provided by the NIOS II, which is responsible for managing and logically routing the robot's tasks. The system feedback is obtained through readings from encoder sensors. This reading detects the rising edge of the pulse and conditions the signal for the unit used in the control system (rad/s or rad). The actuator signal, in turn, is provided by the PI controller, which calculates the system error based on the difference between subtracting the reference signal and the conditioned sensor signal and attenuates it.

Conclusion

This work presented the implementation of a speed and position controller applied to DC engines. The controller was validated through the analysis of its response to variations in speed and position references, as well as to variations in the load coupled to the engine shaft. The controller presented satisfactory results, meeting both performance and stability requirements while respecting the operational limits of the elements involved.

References

Dorf, R. C. and Bishop, R. H (2001). Sistemas de Controle Modernos. LTC, Rio de Janeiro - RJ. Franklin, G., Powell, J. and Workman, M. (1998). Digital control of dynamic systems, Addison-Wesley world student series, Addison-Wesley. Gonçalves, J., Lima, J., Malheiros, P., and Costa, P. (2010). Sensor and actuator stochastic modeling of the Lego Mindstorms NXT educational Kit. Proc. Of the 10th Int. Conf. on Mobile Robots and Competitions, Leiria. Kim, Y. (2011). Control Systems Lab Using a LEGO Mindstorms NXT Motor System. IEEE Transactions on Education, Vol. 54, No .3, pp. 452 -- 461. Nise, N. S. (2009). Engenharia de Controle. LTC, Rio de Janeiro - RJ. Ogata, K. (2010). Engenharia de Controle Moderno. Pearson Prentice Hall, São Paulo - SP. VALLIM, M. B. R.; HERDEN, A.; GALLO, R.; CARDOSO, L.R.; BITENCOURT, L.C. Incentivando Carreiras na Área da tecnologia Através da Robótica Educacional. PROCEEDINGS OF THE 37TH BRAZILIAN CONGRESS ON ENGINEERING EDUCATION - COBENGE, Recife, 2009.

Support

ARAUCÁRIA FOUNDATION

Legend

(4) Undergraduate Student - Federal Technological University of Paraná - Cornélio Procópio
(8) Faculty Member - Federal Technological University of Paraná - Cornélio Procópio

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: August 6, 2026.**

IMPLEMENTAÇÃO NO FPGA DE UM CONTROLADOR PROPORCIONAL-INTEGRATIVO PARA OS SISTEMAS DE VELOCIDADE E POSIÇÃO DE MOTORES APLICADOS NA ROBÓTICA MÓVEL

Autores

JULIO CONFORTO *(4)*
MARCOS BANHETI RABELLO VALLIM *(8)*

Categoria

Trabalho de Iniciação Científica

Introdução

Os robôs móveis tem desempenhado um papel vital no avanço da civilização. Através da sua liberdade de movimento, eles podem realizar tarefas que exijam flexibilidade como realizar inspeções, transporte de mercadorias em hospitais, fábricas, portos, armazéns e mineração, e explorar terrenos inóspitos, como espaço ou oceanos, entre outras. Para operar de forma eficaz, eles devem ser capazes de manter o sistema estável e preciso no controle de posição e velocidade de seus motores. Desta forma, este trabalho tem o objetivo de apresentar a implementação em um FPGA de um controlador de posição e velocidade aplicados a MCC. Tal aplicação proporciona uma contribuição no desenvolvimento de uma plataforma de robótica educacional para o Projeto Ninho de Pardais (Vallim et al., 2009).

Objetivos

Implementar um controlador Proporcionais-Integrativos (PI) discretizados no FPGA para controlar o sistema de posição e velocidade dos MCC.

Material e Métodos

O controlador Proporcional Integrativo (PI) é responsável em atenuar o erro em regime permanente, caracterizando-se como um compensador por atraso de fase (Ogata, 2010).

em que Kp é o ganho proporcional e Ti é o tempo integral. Os parâmetros Kp e Ti são chamados parâmetros de ajuste do controlador (Ogata, 2010).

A utilização deste controlador deve-se ao fato de ser facilmente implementável e versátil com capacidade de alterar os comportamentos transitórios e de regime permanente do processo sob controle.

Resultados e Discussão

Esta seção foca no resultado do desenvolvimento dos controladores.

O processo de controle dos motores para os sistemas de velocidade e posição é dividido em três etapas: sinal de referência (entrada), atuador (ação do controlador PI) e a realimentação (leitura do sensor). O sinal de referência do controlador é fornecido pelo NIOS II, que é responsável pelo gerenciamento e encaminhamento lógico das tarefas do robô. A realimentação do sistema é feita através da leitura dos sensores encoders, tal leitura detecta a borda de subida do pulso e condiciona o sinal para a unidade utilizada no controle (rad/s ou rad). Já o sinal do atuador é fornecido pelo controlador PI que calcula o erro do sistema através da subtração entre o sinal de referência e o sinal condicionado do sensor e atenua.

Conclusão

Este trabalho apresentou a implementação de um controlador de velocidade e posição aplicado nos MCC. A validação do controlador foi por meio da análise da resposta a variações na referência de velocidade e posição, bem como à variação da carga acoplada ao eixo do motor. O controlador apresentou resultados satisfatórios, atendendo tanto às condições de desempenho quanto às de estabilidade, respeitando os limites operacionais dos elementos envolvidos.

Referências

Dorf, R. C. e Bishop, R. H (2001). Sistemas de Controle Modernos. LTC, Rio de Janeiro - RJ. Franklin, G., Powell, J. and Workman, M. (1998). Digital control of dynamic systems, Addison-Wesley world student series, Addison-Wesley. Gonçalves, J., Lima, J., Malheiros, P. e Costa, P. (2010). Sensor and actuator stochastic modeling of the Lego Mindstorms NXT educational Kit. Proc. Of the 10th Int. Conf. on Mobile Robots and Competitions, Leiria. Kim, Y. (2011). Control Systems Lab Using a LEGO Mindstorms NXT Motor System. IEEE Transactions on Education, Vol. 54, No .3, pp. 452 -- 461. Nise, N. S. (2009). Engenharia de Controle. LTC, Rio de Janeiro - RJ. Ogata, K. (2010). Engenharia de Controle Moderno. Pearson Prentice Hall, São Paulo - SP. VALLIM, M. B. R.; HERDEN, A.; GALLO, R.; CARDOSO, L.R.; BITENCOURT, L.C. Incentivando Carreiras na Área da tecnologia Através da Robótica Educacional. ANAIS DO 37 CONGRESSO BRASILEIRO DE ENSINO DE ENGENHARIA - COBENGE, Recife, 2009.

Apoio

FUNDAÇÃO ARAUCÁRIA

Legenda

(4) Aluno Graduação - Universidade Tecnológica Federal do Paraná - Cornélio Procópio
(8) Docente - Universidade Tecnológica Federal do Paraná - Cornélio Procópio

Outlook

Article for the Latin American Summer School on Robotics

From Júlio Conforto <julio.conforto@hotmail.com>
Date Wed, 11/30/2011 9:49 p.m.
To pzegers@miuandes.cl <pzegers@miuandes.cl>
Cc mvallim@gmail.com <mvallim@gmail.com>; hugolond@gmail.com <hugolond@gmail.com>

Dear Pablo,

I am sending this email to confirm my participation at the conference.

Best regards,
Júlio Conforto.

Date: Tue, 29 Nov 2011 10:03:01 p.m. -0300
Subject: Re: Article for the Latin American Summer School on Robotics
From: pzegers@miuandes.cl
To: julio.conforto@hotmail.com
CC: jruizd@ing.uchile.cl; rgarcia1@miuandes.cl

Dear Julio,

Your work was accepted for the " Latin American Summer School on Robotics". Please check the web site for details about the poster competition: http://www.amtc.cl/escueladeverano/index.htm.

Also, you have been awarded an IEEE grant travel that amounts to US$500 in cash. The money will be given to you here in Santiago during the conference. Please confirm that you will come to the "Escuela" in order to reserve the grant to you.

See you at the conference!

Regards,

Pablo

On November 18, 2011, at 2:18 p.m., Júlio Conforto <julio.conforto@hotmail.com> wrote:

> Please see the attached article.
>
> Kind regards, Júlio
> Conforto.

--
Pablo Zegers, Ph.D.
Associate Professor
School of Engineering and Applied Sciences
University of the Andes
Chile
Telephone: 4129324
Email: pzegers@miuandes.cl
Website: www.uandes.cl

I, Pedro Peski Ribeiro Lopes, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Spanish and Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ **Date: July 30, 2026.**

Outlook

Artículo para el evento Escuela de Verano Latino Americana en robótica

De Júlio Conforto <julio.conforto@hotmail.com>
Data Qua, 30/11/2011 21:49
Para pzegers@miuandes.cl <pzegers@miuandes.cl>
Cc mvallim@gmail.com <mvallim@gmail.com>; hugolond@gmail.com <hugolond@gmail.com>

Dear Pablo,

I am sending this email to confirm my participation at the conference.

Best regards,
Júlio Conforto.

Date: Tue, 29 Nov 2011 22:03:01 -0300
Subject: Re: Artículo para el evento Escuela de Verano Latino Americana en robótica
From: pzegers@miuandes.cl
To: julio.conforto@hotmail.com
CC: jruizd@ing.uchile.cl; rgarcia1@miuandes.cl

Dear Julio,

Your work was accepted for the "Escuela de Verano Latino Americana en Robótica". Please check the web site for details about the poster competition: http://www.amtc.cl/escueladeverano/index.htm.

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See you at the conference!

Regards,

Pablo

El 18 de noviembre de 2011 14:18, Júlio Conforto <julio.conforto@hotmail.com> escribió:

> En el artículo adjunto.
>
> Graciosamente,
> Júlio Conforto.

--
Pablo Zegers, Ph.D.
Profesor Asociado
Facultad de Ingeniería y Ciencias Aplicadas
Universidad de los Andes
Chile
Teléfono: 4129324
Correo-e: pzegers@miuandes.cl
Página web: www.uandes.cl

Outlook

Re: FW: Article for the Latin American Summer School on Robotics

From Marcos Vallim <mvallim@gmail.com>
Date Wed, 11/30/2011 5:34 p.m.
To Júlio Conforto <julio.conforto@hotmail.com>

Congratulations, Julio!

Double congratulations: on the acceptance and on the grant (fellowship). You will receive US$500 from the IEEE!
Excellent!

Marcos Vallim

P.S.: I need you to print out the acceptance email and a copy of the article and bring them to Ana at the Office of the General Directorate. Please do this first thing tomorrow morning. Tell Álvaro to do the same. Also, ask him to forward me the acceptance email, as you and Marcel did.

11/30/2011 Júlio Conforto <julio.conforto@hotmail.com>:
> Good morning, professor Vallim!
>
> I am forwarding the email from Dr. Pablo Zegers, confirming the acceptance of the paper
> for the conference. Álvaro's paper was also accepted.
>
>
> Sincerely,
>
> Júlio Conforto
>
> _____
> Date: Tue, 29 Nov 2011 10:03:01 p.m. -0300
>
> Subject: Re: Article for the Latin American Summer School on Robotics
> From: pzegers@miuandes.cl
> To: julio.conforto@hotmail.com
> CC: jruizd@ing.uchile.cl; rgarcia1@miuandes.cl
>
> Dear Julio,
>
> Your work was accepted for the "Latin American Summer School on Robotics". Please check the web site for details about the poster

> competition: http://www.amtc.cl/escueladeverano/index.htm.
>
> Also, you have been awarded an IEEE grant travel that amounts to US$500 in
> cash. The money will be given to you here in Santiago during the conference.
> Please confirm that you will come to the "Escuela" in order to reserve the
> grant to you.
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> See you at the conference!
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> Regards,
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> Pablo
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> November 18, 2011 2:18 p.m., Júlio Conforto
> <julio.conforto@hotmail.com> wrote:
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> Please see the attached article.
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> Kind regards,
> Júlio Conforto.
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> --
> Pablo Zegers, Ph.D.
> Associate Professor
> School of Engineering and Applied Sciences
> University of the Andes
> Chile
> Telephone: 4129324
> Email: pzegers@miuandes.cl
> Website: www.uandes.cl
>

I, Pedro Peski Ribeiro Lopes, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Spanish and Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



_____ **Date: July 30, 2026.**

Outlook

Re: FW: Artículo para el evento Escuela de Verano Latino Americana en robótica

De Marcos Vallim <mvallim@gmail.com>
Data Qua, 30/11/2011 17:34
Para Júlio Conforto <julio.conforto@hotmail.com>

Parabéns Julio !

Parabéns duplo: pela aprovação e pela bolsa (beca). Voce receberá U$ 500 da IEEE!
Excelente!

Marcos Vallim

ps: preciso que voce imprima o e-mail de aceite e uma cópia do artigo e leve para a Ana do Gabinete da direção geral. Faça isso logo cedo. Diga para o Alvaro fazer o mesmo. Aliás peça a ele para me reenviar o e-mail de aceite como voce eo marcel fizeram.

2011/11/30 Júlio Conforto <julio.conforto@hotmail.com>:
> Bom dia, professor Vallim!
>
> Estou repassando o e-mail do Dr. Pablo Zegers, o qual confirma o aceite do
> trabalho para o congresso. O do Álvaro também foi aceito.
>
>
> Atenciosamente,
>
> Júlio Conforto
>
> _____
> Date: Tue, 29 Nov 2011 22:03:01 -0300
>
> Subject: Re: Artículo para el evento Escuela de Verano Latino Americana en
> robótica
> From: pzegers@miuandes.cl
> To: julio.conforto@hotmail.com
> CC: jruizd@ing.uchile.cl; rgarcia1@miuandes.cl
>
> Dear Julio,
>
> Your work was accepted for the "Escuela de Verano Latino Americana en
> Robótica". Please check the web site for details about the poster

> competition: http://www.amtc.cl/escueladeverano/index.htm.
>
> Also, you have been awarded an IEEE grant travel that amounts to US$500 in
> cash. The money will be given to you here in Santiago during the conference.
> Please confirm that you will come to the "Escuela" in order to reserve the
> grant to you.
>
> See you at the conference!
>
> Regards,
>
> Pablo
>
> El 18 de noviembre de 2011 14:18, Júlio Conforto
> <julio.conforto@hotmail.com> escribió:
>
> En el artículo adjunto.
>
> Graciosamente,
> Júlio Conforto.
>
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>
>
>
> --
> Pablo Zegers, Ph.D.
> Profesor Asociado
> Facultad de Ingeniería y Ciencias Aplicadas
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> Chile
> Teléfono: 4129324
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>


2020 — XXVII CBEB
Convention Center (Remote Event) – Vitória, ES
2022 — XXVIII CBEB
In conjunction with the 9th CLAIB (Remote Event) – Florianópolis, SC

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: August 6, 2026.**


2020 — XXVII CBEB
Centro de Convenções (Evento Remoto) — Vitória, ES
2022 — XXVIII CBEB
Em conjunto com IX CLAIB (Evento Remoto) — Florianópolis, SC

Gmail

Julio Conforto <conforto.julio@gmail.com>

CBEB 2020 notification for paper 150

1 message

CBEB 2020 <cbeb2020@easychair.org> September 5, 2020 at 06:56 p.m.
To: Julio Conforto <conforto.julio@gmail.com>

Dear Julio Conforto

We are pleased to inform that your manuscript 150, entitled "Análise da Qualidade de Usinagem da Fresadora Odontológica Aplicada ao Material PMMA" (Analysis of the machining quality of a dental milling machine applied to PMMA material), submitted to the XXVII Brazilian Congress on Biomedical Engineering (CBEB2020), has been ACCEPTED for presentation at CBEB2020.

You will be informed about the type of presentation (Poster or Oral), at most by the end of August 2020.

Best regards,
Scientific Committee of CBEB2020

Gmail **Julio Conforto <conforto.julio@gmail.com>**

Reminding you to prepare your presentation to CBEB2020!

1 message

CBEB 2020 <cbeb2020@easychair.org> September 29, 2020 at 12:22 p.m.
To: Julio Conforto <conforto.julio@gmail.com>

Dear Julio Conforto,

The deadline to prepare your video is October 10! There will not be no on-line presentation! All the presentation must be pre-recorded and uploaded in Youtube. Following, access the link https://submissao.ciente.live/cbeb/ to inform the link of your video, to upload your slides (in ppt or pdf), and to fill the forms with other information about your work!

To prepare your video, please, download the Manual for Video Presentation, which is available at http://cbeb2020.org/CBEB2020-ManualForPresentation.pdf. You can choose using the software OBS Studio or Loom for your presentation.

To help you in your presentation, we have prepared a template in Power-Point, which is available at http://cbeb2020.org/TemplateSlidesCBEB2020.ppt. However, you can use other software for your presentation if you wish, but, please, follow the format and use the logos of our template. The slides of your presentation must be in the same language of your work, however, you can speak in your mother tongue in the video during the presentation.

Recall that the presentation time depends on the modality in which your work was classified. To see the modality of your article, please, access the web page: http://cbeb2020.org/CBEB2020-PreliminaryProgram.pdf. You will then be able to check if your work has been selected for presentation in the “Oral” format (in which you have 10 minutes for your presentation), “Poster” (in which you have 5 minutes for your presentation) or “Scientific Communication” (in which you have 2 min for your presentation).

You can include pictures, tables, and videos in your presentation, in order to make it as beautiful as possible! I wish you all prepare a high-quality video presentation for CBEB2020, whose success depends mainly on you!

Finally, I request you to access the website: http://cbeb2020.org/CBEB2020-PreliminaryProgram.pdf to see again the day and time of your presentation, as some changes were made since the previous e-mail I have sent to all of you.

A (virtual) hug to everyone!

Prof. Teodiano Freire Bastos Filho
General Chair of CBEB2020

Gmail Julio Conforto <conforto.julio@gmail.com>

News from CBEB2020

1 message

CBEB 2020 <cbeb2020@easychair.org> September 5, 2020 at 08:06 p.m.
To: Julio Conforto <conforto.julio@gmail.com>

Dear Julio Conforto,

First of all, I would like to congratulate you for having your article accepted for CBEB2020!

A total of 665 papers were submitted to CBEB2020, but only 551 papers (478 full-paper and 73 scientific communication) were accepted to be presented at CBEB2020, after two review processes.

Now is the time for you to prepare to virtually participate in CBEB2020! The first step is to make the payment for the registration of your work, whose deadline for payment with discount is September 11. All the details for this can be consulted on the website: https://www.cbeb.org.br/inscricoes.html

Remember that if you changed the title of your article or modified the authors of it, you must access Easychair and correct this information (Access your area on Easychair and click on the option “Update information”).

For the presentation of your work at CBEB2020, you will soon receive instructions from the company Softalisa, which will manage the event in its virtual format. All papers will be presented in an “Oral” form, although they have been classified as: “Oral”, “Poster” or “Scientific Communication”. The presentation time depends on the modality in which your article was classified. To see the modality of your article, access the web page: http://cbeb2020.org/PapersCBEB2020.pdf. You will then be able to check if your work has been selected for presentation in the “Oral” format (in which you will have 10 minutes for your presentation), “Poster” (in which you will have 5 minutes for your presentation) or “Scientific Communication” (in which you will have 2 min for your presentation).

I thank you all for participating in CBEB2020, whose success depends mainly on you!

A (virtual) hug to everyone!

Prof. Teodiano Freire Bastos Filho
General Chair of CBEB2020

XXVII Brazilian Congress in Biomedical Engineering

October 26-30 2020 Vitoria (Brazil)



Preface

For this edition of the Brazilian Conference on Biomedical Engineering (CBEB2020 – Congresso Brasileiro de Engenharia Biomédica), 665 papers were submitted, composed of 564 scientific articles (4-6 pages) and 101 Scientific Communications (Abstracts up to 2 pages). After the first round of reviews, 595 papers were accepted (514 full papers and 81 scientific communication). These 595 articles underwent a second review round, and at the end 551 papers (478 full papers and 73 scientific papers) were accepted to be presented at CBEB2020.

CBEB is promoted by the Brazilian Society of Biomedical Engineering (SBEB), with biannual periodicity, organized by researchers linked to a local research institution, with the collaboration of the entire scientific community linked to the area of Biomedical Engineering in Brazil. CBEB2020 was held on October 26-30, 2020 in Vitória (Brazil) and was organized in the following tracks:

- Clinical Engineering and Health Technology Assessment
- Biomaterials
- Tissue Engineering and Artificial Organs
- Bioengineering
- Biomedical Devices and Instrumentation
- Biomechanics and Rehabilitation
- Neuroengineering
- Biomedical Signal and Image Processing
- Biomedical Robotics, Assistive Technologies, and Health Informatics
- Biomedical Optics and Systems and Technologies for Therapy and Diagnosis
- Basic Industrial Technology in Health
- Special Topics

We would like to thank the sponsors CNPq and FAPES for making it possible to celebrate this event in times of uncertainty due to the COVID-19 pandemics.

October 26-30, 2020
Vitória - Brazil

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Analysis of the Machining Quality of a Dental Milling Machine Applied to PMMA Material

Júlio Conforto[1], Yago Santana Leal[2], and Fabio Kurt Schneider[1]

[1] Federal Technological University of Paraná/Graduate Program in Electrical Engineering and Industrial Informatics, Biomedical Engineering, Curitiba, Brazil
[2] Positivo University/ Exact Sciences and Technology Center, Curitiba, Brazil

Abstract—**The Brazilian population maintained the aging trend and has a high rate of decayed, filled or missing teeth in this older age group. Dental repairs have contributed to improving this population's health condition, and in recent years there has been an increase in the demand for dental implants, especially for dental prostheses developed by CAD / CAM technology. Based on this, this article aims to analyze the machining quality of a dental milling machine marketed in Brazil for the manufacture of dental prostheses, in order to inform the scientific community of the precision achieved by the equipment, since the manufacturer's manuals do not inform. With the analysis of this data, we can assist the dental prosthesis developer in the mitigation of problems, improving the patient's well-being. We can also highlight that these results can be compared to validate the development of a national dental milling project. However, it is important to note that this study was developed with a limited amount of samples from two national PMMA suppliers and the materials were machined in only one model of equipment sold in Brazil: Coritec 250i from the company Imes-Icore. In this milling machine, 10 parts were machined, 5 in the PMMA block from the manufacturer Provi-CAD and 5 in the PMMA block from the manufacturer Protitec. Then, the pieces were sent to a certified measurement laboratory, where the largest and smallest errors in the dimensions of the pieces were identified, being 355,2 µm for both PMMA blocks, 16,8 µm for the PMMA block of the company Protitec, and 23,5 µm for the company Provi-CAD.**

Keywords— **CAD/CAM, Dental Milling Machine, PMMA.**

I. Introduction

According to a survey conducted by the Brazilian Institute of geography and Statistics (IBGE), published in 2018, the elderly population in Brazil increased by 18% [1], while life expectancy rose to 76 years [2]. Consequently, there has been an increase in the demand for dental treatment involving implants and dental prostheses, since age is directly related to the rate of tooth loss [3, 4].

The National Oral Health Survey indicated that individuals aged 65 to 74 had the highest number of decayed, missing, or filled teeth (CPO-D/CEO-D) with an index of 27.53, as shown in Table 1. Regarding self-reported dental morbidity, the same age group had a rate of 46.6%, *the lowest among the age groups shown in Table 1, which reflects the actual oral health status of the Brazilian elderly population, most of whom are edentulous* [5].

One way to reduce the CPO-D/CEO-D index is to promote oral health education for people of all ages. However, it also is necessary to address the problem by providing Options for dental restoration. To contribute to the production of these dental restorations technology based on the use of computers and computer applications is used for the design and manufacture of dental frameworks and abutments [6].

Tabela 1 Mean CPO-D/CEO-D index among Brazilians according to age, and self-reported dental morbidity, prevalence, and severity of toothache according to age [5]

Age (years)	Mean CPO-D/CEO-D index (teeth)	Self-reported dental morbidity (%)
5	2.43	-
12	2.07	60.8
15 - 19	4.25	65.1
35 - 44	16.75	75.2
65 - 74	27.53	46.6

The use of CAD/CAM is an example of a technological solution. The term CAD/CA mis an acronym for *Computer Aided Design* and *Computer Aided Manufacturing*. CAD/CAM is a system consisting of a scanner, which is used to digitize the patient's mouth or plaster casts of the patient's mouth. The scanner transmits the data to a computer, after which the data are processed using CAD software, allowing a three-dimensional image of the scanned structures to be created [7].

The CAD software allows the system operator – whether a dentist or a dental prosthesis technician, to virtually design the elements required for prosthetic rehabilitation, reconfiguring their form and function [7]. The CAM system is used to manufacture the prosthesis designed in the CAD software using a milling machine and material such as: zirconia, lithium disilicate, acrylic resins *for temporary*

prostheses, titanium, and cobalt-chromium. The manufacturing process is Illustrated in Figure 1.

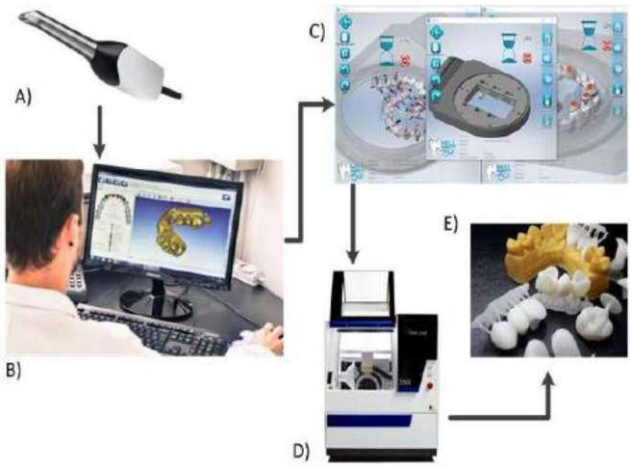


Fig. 1 In figure A), an intraoral scanner model is illustrated; figure B) represents the computer with the CAD interface; figure C) represents the processing of the design developed in CAD using CAM software; figure D) shows an example of a dental milling machine; and figure E) shows fabricated dental prostheses

At the endo f the dental prosthesis fabrication process, the dentist attaches the prosthesis to the patients implant or remaining natural tooth structure. At this stage, the accuracy of the dental prosthesis is evaluated, since any defects may result in food accumulation in the area and, consequently, bacterial plaque buildup, which may lead to peri-implantitis, as well as bad breath. Inaccuracies in the dental prosthesis may also cause chronic gingival inflammation by altering the architecture of the gingiva in contact with the fabricated teeth [8].

Considering the situation described above, this article proposes to evaluate the quality of the machined samples and the time required by a milling machine marketed in Brazil to complete the task. Accordingly, this study is structured around the selection of the material and dental milling machine model, as well as the design of the part according to the specified requirements. Once this stage is completed, the parts are machined and sent to a company accredited by the Brazilian Calibration Network to measure the parts and report their dimensions. The data provided by the company are entered into a spreadsheet, where the error for each dimension is calculated. Figure 2 illustrates the flowchart for the development of the study.

II. Materials and Methods

A. Dental Materials used in CAD/CAM technology

Materials used in dentistry have been developed based on studies of the mechanical properties of the hard tissues that make up the calcified structure of the tooth: enamel and dentin, as well as the biocompatibility of the materials used [9].

The results of a study conducted by [10] analyzed the effect of the orientation of enamel and dentin on crack propagation on the occlusal surface and in axial sections, in directions parallel and perpendicular to the occlusal surface. The study found that dentin has a tensile strength *of 50 MPa*, while enamel has a tensile strength *of 10 MPa*.

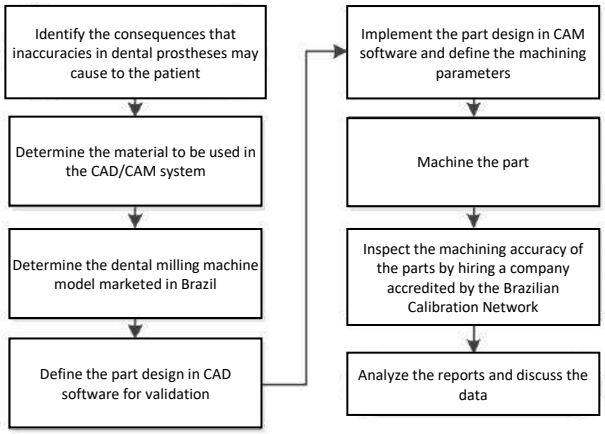


Fig. 2 Methodological flowchart for the development of this article

Based on the study of the mechanical properties of teeth, it was possible to determine the mechanical characteristics of the materials to be used. Table 2 presents the tensile strength and elastic modulus of the materials Polymethylmethacrylate (PMMA), Cobalt-Chromium (Co-Cr), and Titanium (Ti). After the machining process and proper sanitization, these materials can be applied to patients, with PMMA being used for temporary restorations, since not all clinical situations are suitable for immediate definitive treatment [10].

The use of titanium and cobalt-chromium materials in dental milling machines requires control technologies applied to servo motors, which are responsible for moving the axes, a cutting fluid system to cool the milling tool during the roughing process, and a high-power roughing motor. In this case, the acquisition cost of this equipment, combined with

import taxes, makes the acquisition of these machines unfeasible for several dental prosthesis laboratories operating in Brazil.

In contrast, materials with ceramic properties, as well as acrylic resins, are used in all types of milling machines, regardless of the axis movement drive technology, the presence of a milling tool cooling system, or the power of the roughing motor [6]. The materials presented in Table 3 are partially synthesized, allowing laboratories to fabricate prostheses quickly and easily. Therefore, after the machining process, the part must undergo a sintering process, which is a thermal process that causes material contraction, transforming it into a ceramic material [10].

Tablel 2 Tensile Strength and Elastic Modulus of materials used in dentistry [10]

Material	Type	Tensile Strength (MPa)	Elastic Module (GPa)
Poly(methylmethacrylate) - PMMA	Acrylic Resin	60	2,4
Cobalt-Chromium (Co-Cr)	Metal alloy	870	224
Titanium (Ti)	Metal alloy	345	103

Tablel 3 Tensile Strength and Elastic Module of Materials used in dentistry [10]

Material	Type	Fexural Strength (MPa)	Fracture Toughness ($MPa*m^{1/2}$)
Feldspathic porcelain	Veneering ceramic	55-87	0.9-1.5
Leucite-reinforced glass ceramic	Ceramic Core	73-182	1.0-2.0
Lithium disilicate-reinforced glass ceramic	Ceramic core	215-350	3.4
Alumina	Ceramic core	420-670	3.8-4.5
Zirconia (yttria-stabilized)	Ceramic core	900-1345	9.0

B. Selection of material type and equipment

In order to avoid limiting the study to specific milling machine models, the use of titanium, cobalt-chromium, and ceramic materials was discarded, as these materials require a sintering process [6], which involves the use of an electric furnace. Therefore, PMMA material was selected.

For the study analysis, two PMMA blocks from the company Provi-Cad, registered with Anvisa under number 80984050018 and classified as risk class 2, and two PMMA blocks from the company Protitec, registered with Anvisa under number 80750420001 and classified as risk class 2, were acquired through a dental prosthesis laboratory. Since these materials are registered with Anvisa, their acquisition is controlled and can only be carried out by laboratories or individuals registered with the Regional Council of Dentistry (CRO).

In the following stage, the dental milling machine model was evaluated, considering the following factors: preventive maintenance performed within the period specified by the manufacturer and the CAM software model. The use of the same CAM software for different milling machine brands enables the proper comparison of results between models, since, according to [11], PMMA machining requires a machining strategy implemented in the CAM system, which may affect both the execution time and the quality of the process.

Based on the CAM software analysis, three commercial equipment models were selected: CORiTEC 250I – Imes-Icore, DWX50 – Roland, and D15W - Yenadent. *These models are marketed by foreign companies, and no records were found in the Anvisa system regarding RDC Resolution No. 185/2001.* However, these devices have registrations for directives regulated by the European Union, such as Electromagnetic Compatibility (EC – EMC Directive 2004/108/EC), Machinery (EC – Machinery Directive 2006/42/EC), and Low Voltage (EC – Low Voltage Directive 2006/95/EC).

After meeting the CAM software requirement, dental prosthesis laboratories were consulted to identify the equipment preventive maintenance history. Thus, the CORiTEC 250I model was selected for testing. The CORiTEC 250I model incorporates technology that allows the use of five degrees of freedom (X, Y, Z, A, and B) with stepper motor operation under open-loop control. It uses a pneumatic spindle with an automated tool-change process, in which a compressed air system enables the coupling and uncoupling of the milling tool. The zero position for the beginning of machining is located exactly at the center of the disc.

C. Design of the part for the study

The definition of the part geometry initially considered the limitations of the equipment used to measure the dimensions of the machined parts, as well as the characteristics required for a dental prosthesis - the hole for fixing the prosthesis to the implant and the geometric accuracy of the prosthetic component. This accuracy is associated with the movement of the equipment's five axes (X, Y, Z, A, and B) during the machining process.

The machining accuracy of the machine was evaluated by considering the largest dimensions of the part, including the 45-degree inclined ramp, which has a width and length of 7 millimeters (mm), and the dimensions of the part itself, which has a length, width, and height of 10 mm. For the analysis of the smallest dimensions, the steps with different spacing intervals were evaluated, as well as the 5.0 mm diameter hole. With the prerequisites defined, the part design, illustrated in Figure 3, was developed using the CAD software SolidWorks (Dassault Systèmes, Vélizy-Villacoublay Cedex - France).

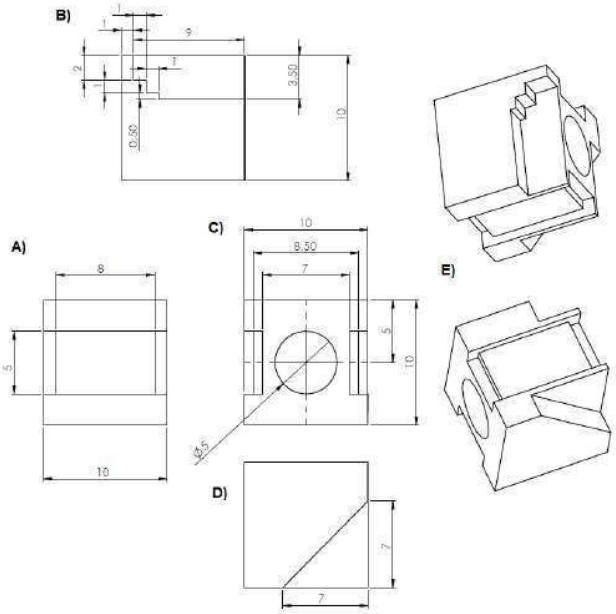


Fig. 3 Part dimensions in millimeters. A) Cross-sectional view; B) Right-side view of the part, showing the steps with different spacing intervals; C) Top view of the part; D) Left-side view of the cube, showing the 45-degree inclined ramp; E) 3D view of the part.

D. Implementation of the part in the CAM software

After completing the part geometry in CAD software, the part was prepared in the CAM software MillBox. At this stage, the part was inserted into the block in five positions, with the fiducial point located at position 4, as shown in Figure 4. The machining process was planned to begin at position 1, so that the parts were milled in ascending numerical order, ending at position 5. Therefore, five samples were fabricated from each PMMA block.

The parts were named according to the cardinal point orientation (North – N, East – E, South – S, West – W, and Center – C), with the reference located at the South position. Therefore, the designation S1 was used to identify the PMMA block from Provi-Cad, and S2 was used for the PMMA block from Protitec.

The machining task parameters are predefined by the CAM MillBox software, allowing the time required to complete each part during the machining process to be recorded. Table 4 presents the configuration determined by the CAM software for machining the parts. During the fabrication process of each part, four milling tool models were used for each task determined by the CAM software.

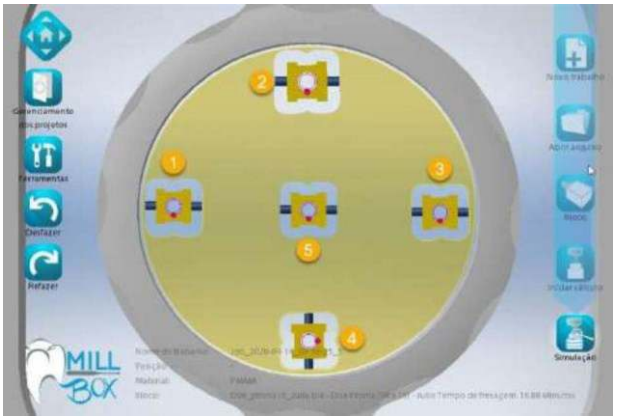


Fig. 4 Part inserted into the CAM MillBox software in 5 positions, with the fiducial point located at position 4.

Table 4 Pre-configured parameters in the CAM software for part fabrication

Tarefa	Milling Tool Diameter (mm)	Spindle Speed (rpm)	X and Y Feed Rate (mm/min)	Z Feed Rate (mm/min)
Material roughing	2.5	17000	2500	2500
Material Drilling	2.0	21000	1500	1500
Smoothing	1.0	21000	2000	2000
Flat Surface Finishing	2.0	21000	2000	2000

E. Analysis of the machined parts

In order to present certified measurement results, the machined parts were sent to a laboratory accredited by the Brazilian Calibration Network. The equipment used to measure the parts was the CRYSTA-Apex S 122010 model (*Mitutoyo, Suzano – SP, Brazil*), serial number 60542127, with calibration certificate number 00474/20, valid until January 2021. Its resolution is 0.1 micrometers (µm), with an

accuracy of 2 µm, using the SP25M sensor with a 4 mm diameter tip and a 50 mm length.

This equipment performs a scan of the part using the sensor in a three-dimensional movement – initially, the sample is referenced in the equipment, and when the sensor contacts the surface of the part under study, the measured value is sent to the MCOSMOS software. Thus, it is possible to process these data and generate the measured part drawing.

III. Results and Discussions

A. Evaluation of the dimensions of parts machined by the CORiTEC 250I milling machine

Upon completion of the measurement procedures, a report with measurement certificate number 02340-20 was developed by the company Mitutoyo. This report indicates the measurement of each dimension of the part, including the nominal value (mm) and the measured value (mm), as well as the measurement uncertainty (mm), coverage factor (k), and degrees of freedom (Veff).

Tables 5 and 6 present the machining times for each part *in minutes (') and seconds (")*, according to the records from the CAM software, as well as the results obtained from the Mitutoyo report for the respective PMMA blocks.

Table 5 Results presented in the Mitutoyo report using the PMMA block from Provi-Cad (14 mm)

Activity	Nominal (mm)	O1 (mm)	N1 (mm)	L1 (mm)	S1 (mm)	C1 (mm)
Machining Time	-	*26′09″*	*26′31″*	*26′11″*	*26′41″*	*26′22″*
Ramp	7.0	6.832	6.827	6.841	6.807	6.834
	7.0	6.819	6.866	6.8	6.843	6.843
Length	10.0	9.839	9.912	9.880	9.769	9.885
	10.0	9.853	9.910	9.869	9.806	9.922
Width	10.0	9.794	9.873	9.771	9.881	9.887
	10.0	9.829	9.881	9.835	9.92	9.949
Height	10.0	10.225	10.117	10.187	*10.355*	10.220
	10.0	10.289	10.091	10.195	10.334	10.202
Hole	5.0	5.004	5.009	*5.068*	5.013	5.044
Step 1	2.0	2.014	1.989	2.004	2.016	2.002
Step 2	1.0	0.991	1.000	0.995	0.986	0.998
Step 3	0.5	*0.483*	0.495	0.492	*0.476*	0.490

The results were entered into a spreadsheet, in which the error for each dimension of the parts was calculated by subtracting the nominal value from the measured value. Thus, it was possible to identify that the largest errors occurred in dimensions with higher values, *with a maximum error of 355.2 µm for both PMMA blocks. The mean error and standard deviation were 222.720 and 93.992 for block 1, and 206.120 and 97.004 for block 2, respectively*. For smaller displacements, the largest error was 16.8 µm for the PMMA block from Protitec and 23.5 µm for the PMMA block from Provi-Cad. Regarding the hole geometry, the largest error found was 133.3 µm for the PMMA block from Protitec and 68 µm for the PMMA block from Provi-Cad.

Table 6 Results presented in the Mitutoyo report using the PMMA block from Protitec (16 mm)

Activity	Nominal (mm)	O2 (mm)	N2 (mm)	L2 (mm)	S2 (mm)	C2 (mm)
Machining Time	-	*26′49″*	*26′58″*	*26′25″*	*27′04″*	*25′58″*
Ramp	7.0	6.859	6.827	6.802	6.825	6.845
	7.0	6.873	6.836	6.837	6.848	6.855
Length	10.0	9.872	9.791	9.819	9.776	9.888
Width	10.0	9.923	9.827	9.842	9.817	9.935
	10.0	9.886	9.827	9.808	9.952	9.950
	10.0	9.898	9.870	9.863	9.981	9.976
Height	10.0	10.147	10.09	10.203	*10.355*	10.226
	10.0	10.219	10.124	10.203	10.346	10.209
Hole	5.0	5.046	*5.133*	5.033	5.032	5.042
Step 1	2.0	2.006	2.01	2.004	2.003	2.004
Step 2	1.0	0.993	1.002	0.995	0.997	0.999
Step 3	0.5	*0.483*	0.499	0.490	0.488	0.490

These errors are high when compared with values reported in scientific studies, which recommend inaccuracies below 120 µm as clinically acceptable [12].

The highest error was observed in the largest machined dimension, which can be explained by the fact that this equipment operates using stepper motors, with an axis displacement resolution of 1.5625 µm. Furthermore, the control system operates in an open-loop configuration, since there are no sensors to monitor axis displacement or speed. Therefore, the error accumulates as the displacement increases during the machining process.

Regarding the analysis of the 10 machined parts, it was possible to identify that, for both PMMA blocks, the part positioned in the South region presented the largest measurement errors, while the part positioned in the North region presented the smallest measurement errors.

Regarding milling time, it is worth highlighting that both blocks presented similar average machining times during the fabrication process. The 14 mm thick PMMA block from Provi-Cad had an average machining time of 26 minutes and 23 seconds, while the 16 mm thick PMMA block from Protitec had an average machining time of 26 minutes and 39 seconds. Therefore, it can be concluded that the greater the thickness of the block, the longer the machining time, due to the need for the milling machine to remove a larger amount of unnecessary material during the roughing process.

IV. Conclusion

This study proposed a method to analyze the machining quality of a dental milling machine using PMMA material. For this purpose, material from two different suppliers was used to identify possible milling errors. The results showed that the North region of the equipment can be defined as the area for fabricating prostheses with greater precision, and that smaller part dimensions result in better quality.

In situations involving a high level of criticality in the application of dental prostheses to patients, this study contributes to a more accurate decision-making process by prosthesis developers using the CORiTEC 250I equipment.

It is also important to highlight that the developed method, together with the presented results, enables the comparison and validation of new national dental milling machine projects.

For future studies, the same part will be evaluated using the same machining parameters applied to other dental milling machines that use the same CAM software. *The objective is to perform a quantitative analysis of the dimensions and machining time of each equipment model available on the Brazilian market. Studies using high-resolution scanners will also be conducted to analyze irregular surfaces.*

Acknowledgment

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Conflict of interest

The authors declare that there are no conflicts of interest.

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I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: August 10, 2026.**

XXVII Brazilian Congress in Biomedical Engineering

October 26-30 2020 Vitoria (Brazil)



Preface

For this edition of the Brazilian Conference on Biomedical Engineering (CBEB2020 – Congresso Brasileiro de Engenharia Biomédica), 665 papers were submitted, composed of 564 scientific articles (4-6 pages) and 101 Scientific Communications (Abstracts up to 2 pages). After the first round of reviews, 595 papers were accepted (514 full papers and 81 scientific communication). These 595 articles underwent a second review round, and at the end 551 papers (478 full papers and 73 scientific papers) were accepted to be presented at CBEB2020.

CBEB is promoted by the Brazilian Society of Biomedical Engineering (SBEB), with biannual periodicity, organized by researchers linked to a local research institution, with the collaboration of the entire scientific community linked to the area of Biomedical Engineering in Brazil. CBEB2020 was held on October 26-30, 2020 in Vitória (Brazil) and was organized in the following tracks:

- Clinical Engineering and Health Technology Assessment
- Biomaterials
- Tissue Engineering and Artificial Organs
- Bioengineering
- Biomedical Devices and Instrumentation
- Biomechanics and Rehabilitation
- Neuroengineering
- Biomedical Signal and Image Processing
- Biomedical Robotics, Assistive Technologies, and Health Informatics
- Biomedical Optics and Systems and Technologies for Therapy and Diagnosis
- Basic Industrial Technology in Health
- Special Topics

We would like to thank the sponsors CNPq and FAPES for making it possible to celebrate this event in times of uncertainty due to the COVID-19 pandemics.

October 26-30, 2020
Vitória - Brazil

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Análise da Qualidade de Usinagem da Fresadora Odontológica Aplicada ao Material PMMA

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Abstract— **The Brazilian population maintained the aging trend and has a high rate of decayed, filled or missing teeth in this older age group. Dental repairs have contributed to improving this population's health condition, and in recent years there has been an increase in the demand for dental implants, especially for dental prostheses developed by CAD / CAM technology. Based on this, this article aims to analyze the machining quality of a dental milling machine marketed in Brazil for the manufacture of dental prostheses, in order to inform the scientific community of the precision achieved by the equipment, since the manufacturer's manuals do not inform. With the analysis of this data, we can assist the dental prosthesis developer in the mitigation of problems, improving the patient's well-being. We can also highlight that these results can be compared to validate the development of a national dental milling project. However, it is important to note that this study was developed with a limited amount of samples from two national PMMA suppliers and the materials were machined in only one model of equipment sold in Brazil: Coritec 250i from the company Imes-Icore. In this milling machine, 10 parts were machined, 5 in the PMMA block from the manufacturer Provi-CAD and 5 in the PMMA block from the manufacturer Protitec. Then, the pieces were sent to a certified measurement laboratory, where the largest and smallest errors in the dimensions of the pieces were identified, being 355,2 µm for both PMMA blocks, 16,8 µm for the PMMA block of the company Protitec, and 23,5 µm for the company Provi-CAD.**

Keywords— **CAD/CAM, Dental Milling Machine, PMMA.**

I. INTRODUÇÃO

De acordo com o levantamento do IBGE, publicado em 2018, a população de idosos no Brasil aumentou em 18% [1] sendo que a expectativa de vida subiu para 76 anos [2] e, por consequência, está ocorrendo uma maior procura por tratamento odontológico, para a utilização de implantes e próteses dentárias, já que a idade está diretamente relacionada ao indicador de perda dentária [3, 4].

A Pesquisa Nacional de Saúde Bucal indicou que indivíduos com idades entre 65 e 74 anos apresentam o maior índice de dentes cariados, perdidos ou obturados (CPO-D/CEO-D) que é de 27,53, conforme a tabela 1. Já no quesito morbidade dentária autorreferida, o mesmo grupo apresentou um percentual de 46,6%, *o menor comparado entre as idades – tabela 1, o que retrata a real situação da população idosa brasileira que, em sua maioria, é de desdentados* [5].

Uma das soluções para diminuir o índice de CPO-D/CEO-D é disseminar a educação para a saúde bucal para todas as idades, mas é necessário, também, focar no problema com opções de reparações dentárias. Para contribuir com a produção destas reparações dentárias é utilizada tecnologia baseada no uso de computadores e aplicativos computacionais para o desenho e confecção das estruturas e pilares [6].

Tabela 1 Média do índice CPO-D/CEO-D dos Brasileiros de acordo com a idade e a morbidade dentária autorreferida, prevalência e gravidade da dor de dente de acordo com a idade [5]

Idade (anos)	Média do índice CPO-D/CEO-D (dentes)	Morbidade dentária autorreferida (%)
5	2,43	-
12	2,07	60,8
15 a 19	4,25	65,1
35 a 44	16,75	75,2
65 a 74	27,53	46,6

O uso de CAD/CAM é um exemplo de solução tecnológica. O termo CAD/CAM é uma sigla das palavras *Computer Aided Design* e *Computer Aided Manufacturing*. O CAD/CAM é um sistema composto por um escâner, que é utilizado para digitalizar a boca do paciente ou moldes de gesso da boca do paciente. Este escâner transmite os dados para um computador e, em seguida, os dados são condicionados através do uso de um software CAD, permitindo assim a criação de uma imagem tridimensional das estruturas escaneadas [7].

O software CAD permite que o operador do sistema - seja um cirurgião-dentista ou um técnico em prótese dentária, faça o desenho virtual dos elementos necessários à reabilitação protética, reconfigurando forma e função [7]. O sistema CAM é utilizado para confeccionar a prótese projetada no software CAD através do uso da fresadora, utilizando materiais como: zircônia, dissilicato de lítio, resinas acrílicas

para próteses temporárias, titânio e cromo-cobalto. O processo de confecção é ilustrado na figura 1.

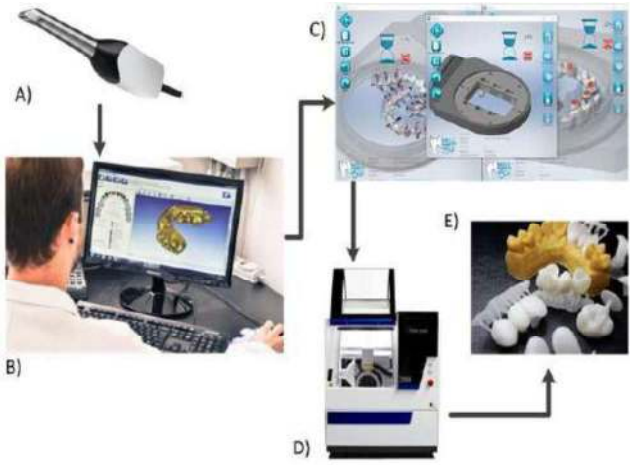


Fig. 1 Fluxo de desenvolvimento da prótese dentária. Na figura A) é ilustrado um modelo de escâner intra-oral; figura B) representa o computador com a interface CAD; figura C) representa o condicionamento do desenho elaborado no CAD aplicado no software CAM; já na figura D) um exemplo de fresadora odontológica e na figura E) próteses dentárias confeccionadas

Ao término da confecção da prótese dentária o cirurgião-dentista acopla a prótese sobre o implante ou no remanescente dentário do paciente. Neste momento é avaliada a precisão da confecção da prótese dentária, pois se apresentar alguma falha o paciente sofrerá com o acúmulo de alimentos na região, e consequentemente a contaminação por placas bacterianas, o qual pode acarretar em um problema de peri-implantite, além de mau hálito. A imprecisão na prótese dentária também pode provocar uma inflamação gengival crônica, pois altera a arquitetura da gengiva em contato com dentes confeccionados [8].

Considerando a situação informada, o presente artigo propõe avaliar a qualidade das amostras usinadas e o tempo de execução que uma fresadora comercializada no Brasil leva para concluir a atividade. Com base nisso, este trabalho está estruturado na escolha do material e do modelo de fresadora odontológica, além do projeto do desenho da peça, seguindo os pré-requisitos determinados. Uma vez concluída esta etapa, as peças são usinadas e enviadas para uma empresa credenciada pela Rede Brasileira de Calibração, para mensurar e informar via relatório as dimensões das peças. Estes dados fornecidos pela empresa são condicionados em uma planilha, onde é calculado o erro de cada cota. A figura 2 ilustra o fluxograma para o desenvolvimento do artigo.

II. Material e método

A. Materiais Odontológicos aplicados para tecnologia CAD/CAM

Os materiais aplicados para odontologia foram desenvolvidos a partir de estudos das propriedades mecânicas dos tecidos duros que constituem a estrutura calcificada do dente: o esmalte e a dentina, além da biocompatibilidade do material empregado [9].

O resultado de um estudo desenvolvido por [10] analisou o efeito da orientação do esmalte e da dentina na propagação das trincas na superfície de oclusão e nas seções axiais, em direções paralelas e perpendiculares à superfície de oclusão. Neste estudo foi possível identificar que a dentina possui uma resistência à tração *em 50 MPa*, e o esmalte *em 10 MPa*.

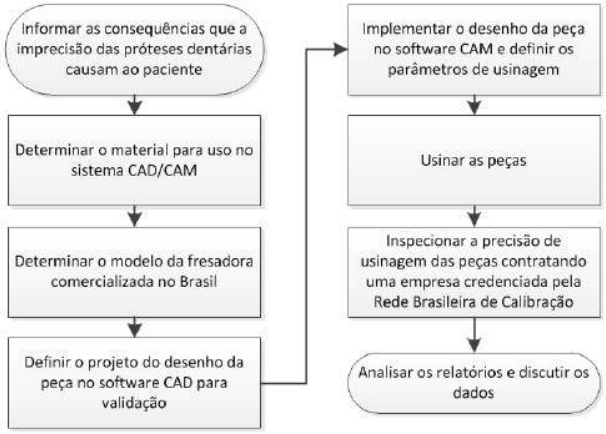


Fig. 2 Fluxograma metodológico para o desenvolvimento do presente artigo

A partir do estudo das propriedades mecânicas dos dentes foi possível determinar as características mecânicas dos materiais a serem utilizadas. Na tabela 2 é apresentado a resistência à tração e o módulo de elasticidade dos materiais Polimetilmetacrilato (PMMA), Cobalto-Cromo (Co-CR) e Titânio (Ti). Estes materiais após o processo de usinagem, devidamente higienizados, já podem ser aplicados para os pacientes, sendo que o PMMA é utilizado para restaurações provisórias, pois nem todas as situações clínicas são passíveis de tratamento definitivo imediato [10].

A utilização dos materiais de titânio e cromo-cobalto em fresadoras odontológicas demandam tecnologias de controle aplicados em servo-motores que são responsáveis em realizar a movimentação dos eixos, de um sistema com fluido de corte para refrigerar a fresa no processo de desbaste e de um motor de desbaste potente. Neste caso, o valor de aquisição

deste equipamento somado aos impostos de importação inviabiliza a aquisição destas máquinas por vários laboratórios de próteses dentárias instalados no Brasil.

Em contrapartida, os materiais com propriedades cerâmicas, assim como as resinas acrílicas são utilizados em todos os tipos de modelos de fresadoras, independentemente da tecnologia de acionamento da movimentação dos eixos, de possuir um sistema para refrigerar a fresa e da potência do motor de desbaste [6]. Os materiais apresentados na tabela 3 são parcialmente sintetizados permitindo aos laboratórios a confecção das próteses de forma rápida e fácil. Sendo assim, após o processo de usinagem a peça precisa passar por um processo de sinterização, que é um processo térmico que provoca a contração do material, tornando-o uma cerâmica [10].

Tabela 2 Resistência à Tração e o Módulo de elasticidade dos materiais empregados na odontologia [10]

Material	Tipo	Resistência à tração (MPa)	Módulo de elasticidade (GPa)
Poli(metilmetacrilato) - PMMA	Resina Acrílica	60	2,4
Cobalto-Cromo (Co-Cr)	Liga metálica	870	224
Titânio (Ti)	Liga metálica	345	103

Tabela 3 Resistência à Tração e o Módulo de elasticidade dos materiais empregados na odontologia [10]

Material	Tipo	Resistência à flexão (MPa)	Tenacidade à fratura ($MPa*m^{1/2}$)
Porcelana feldspática	Cerâmica de cobertura	55-87	0,9-1,5
Vidro ceramizado reforçado com leucita	Núcleo cerâmico	73-182	1,0-2,0
Vidro ceramizado reforçado com dissilicato de lítio	Núcleo cerâmico	215-350	3,4
Alumina	Núcleo cerâmico	420-670	3,8-4,5
Zircônia (estabilizada por ítrio)	Núcleo cerâmico	900-1345	9,0

B. Escolha do tipo do material e do equipamento

Com intuito de não limitar o estudo em alguns modelos de fresadoras, optamos em descartar a utilização dos materiais de titânio e cromo-cobalto e também dos materiais com propriedades cerâmicas, pois precisam passar por um processo de sinterização [6], que envolve a utilização de um forno elétrico. Portanto, selecionamos o material PMMA.

Para análise do estudo foi adquirido, via laboratório de prótese dentária, dois blocos de PMMA da empresa ProviCad, com registro na Anvisa 80984050018 para classificação de grau de risco 2, e dois blocos de PMMA da empresa Protitec, com registro na Anvisa 80750420001 para classificação de grau de risco 2. Como os materiais possuem registro na Anvisa, a aquisição destes materiais é controlada e só pode ser efetuada por laboratórios ou indivíduos que possuam registro no CRO.

Na etapa seguinte foi avaliado o modelo de fresadora odontológica, levando em consideração os itens: manutenção preventiva executada no período informado pelo fabricante e o modelo do software CAM. A utilização de um mesmo software CAM para diferentes marcas de fresadoras possibilita a correta comparação de resultados entre os modelos, visto que conforme [11] a usinagem em material PMMA requer uma estratégia de usinagem implementado no CAM, e isso pode interferir no tempo de execução da atividade, assim como na qualidade.

Com base na análise do software CAM, foram selecionados três modelos comerciais de equipamento: CORiTEC 250I – Imes-Icore, DWX50 - Roland e D15W - Yenadent. *Estes modelos são comercializados por empresas estrangeiras e não foram encontrados registros no sistema da Anvisa referente a norma RDC n° 185/2001*. Contudo, estes equipamentos apresentam registros de diretivas regidos pela União Europeia, tais como, Compatibilidade Eletromagnética (EC - EMC Directive 2004 / 108 / EC), Máquinas (EC - Machinery Directive 2006 / 42 / EC) e Baixa Tensão (EC - Low Voltage Directive 2006 / 95 / EC).

Após a conclusão do requisito do software CAM, consultamos os laboratórios de próteses dentárias para identificar o histórico de manutenções preventivas dos equipamentos, desta forma definimos o modelo CORiTEC 250I para testes. O modelo CORiTEC 250I contempla uma tecnologia que permite utilizar cinco graus de liberdade (X, Y, Z, A e B) com a operação de motores de passo em controle de malha aberta e utiliza um spindle pneumático que possui um processo de troca da ferramenta automatizado, que com o auxílio de um sistema com ar comprimido é possível acoplar e desacoplar a fresa. A posição zero para início da usinagem fica exatamente no centro do disco.

C. O desenho da peça para estudo

A definição da geometria da peça levou em consideração, primeiramente, as limitações do equipamento que vai mensurar as dimensões das peças usinadas, bem como as características que devem possuir uma prótese dentária - furo para fixação da prótese no implante e precisão da geometria do componente protético, a qual está atrelada a movimentação dos cinco eixos do equipamento (X, Y, Z, A e B) durante o processo de usinagem.

A precisão de usinagem da máquina foi avaliada considerando as maiores cotas da peça, podendo citar a rampa com inclinação de 45 graus que possui uma largura e um comprimento de 7 milímetros (mm) e a dimensão da peça que possui um comprimento, largura e altura de 10 mm. Já para a análise das menores cotas foram avaliados os degraus com espaçamentos diferenciados, além do diâmetro de 5,0 mm do furo. Com os pré-requisitos definidos o desenho da peça, ilustrada na figura 3, que foi desenvolvida em um software CAD SolidWorks (Dassault Systèmes, Vélizy-Villacoublay Cedex - France).

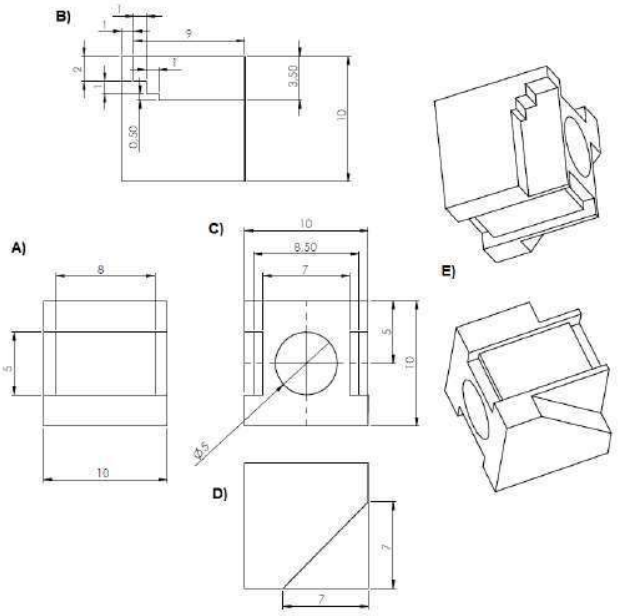


Fig. 3 Dimensões da peça em milímetros. A) Corte transversal; B) Vista da lateral direita da peça, onde contém os degraus com espaçamentos diferenciados; C) Vista superior da peça; D)Vista da lateral esquerda do cubo, onde há uma rampa com inclinação de 45 graus; E) Vista da peça em 3D

D. Implementação da peça no software CAM

Após a conclusão da geometria da peça em um software CAD foi realizado o condicionamento da peça no software CAM - MillBox. Nesta etapa a peça foi inserida em 5 posições no bloco, cujo o ponto fiducial está localizado na posição 4, conforme a figura 4. O processo de usinagem foi planejado para iniciar na posição 1, de modo que as peças foram fresadas na sequência crescente dos números, e finalizando na posição 5. Portanto, para cada bloco de PMMA foram confeccionadas cinco amostras.

As peças foram nomeadas utilizando a orientação dos pontos cardeais (Norte – N, Leste – L, Sul – S, Oeste – O e Centro – C), onde a referência está localizada na posição Sul, logo a nomenclatura S1 foi para identificar o bloco de PMMA da empresa Provi-Cad e S2 para o bloco de PMMA da empresa Protitec.

Os parâmetros das tarefas de usinagem são previamente estabelecidos pelo software CAM MillBox, deste modo é possível registrar o tempo destinado para conclusão de cada peça no processo de usinagem. Na tabela 4 é informada a configuração determinada pelo CAM para a usinagem das peças. No processo da confecção de cada peça foram utilizados quatros modelos de fresas para cada tarefa determinada pelo software CAM.

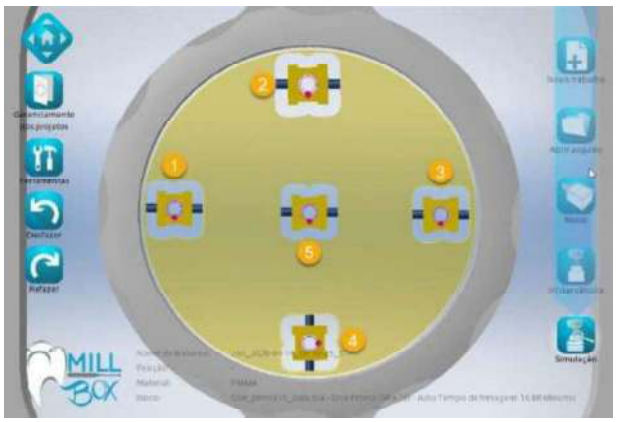


Fig. 4 Peça inserida no software CAM MillBox em 5 posições, cujo o ponto fiducial está na posição 4

Tabela 4 Parâmetros pré-configurados no software CAM para a confecção da peça

Tarefa	Diâmetro da fresa (mm)	Velocidade do spindle (rpm)	Velocidade do avanço X e Y (mm/min)	Velocidade do avanço Z (mm/min)
Desbaste do material	2,5	17000	2500	2500
Furo do material	2,0	21000	1500	1500
Alisamento	1,0	21000	2000	2000
Acabamento de superfícies planas	2,0	21000	2000	2000

E. Análise das peças usinadas

Com o intuito de apresentar resultados de medição certificados, as peças usinadas foram enviadas para um laboratório credenciado pela Rede Brasileira de Calibração. O equipamento utilizado para aferir as peças é o modelo CRYSTA-Apex S 122010 *(Mitutoyo, Suzano – SP, Brasil)*, número de série 60542127, com o certificado de calibração número 00474/20 válido até 01/2021. A sua resolução é de 0,1 micrometro (µm), com uma exatidão de 2 µm, utilizan-

do o sensor SP25M – ponta de diâmetro de 4 mm e 50 mm de comprimento.

Este equipamento efetua uma varredura na peça utilizando o sensor em um movimento tridimensional – inicialmente esta amostra é referenciada no equipamento e quando o sensor toca na superfície da peça em estudo o valor medido é enviado para o software MCOSMOS, assim, é possível condicionar estes dados e projetar o desenho da peça medida.

III. Resultados e Discussões

A. Avaliação das dimensões das peças usinadas pela fresadora CORiTEC 250I

Com a conclusão dos trabalhos de aferição, foi desenvolvido um relatório com o certificado de medição número 02340-20 pela empresa Mitutoyo. Neste relatório são indicados a medida de cada cota da peça, informando o valor nominal (mm) e o valor aferido (mm), bem como a incerteza de medição (mm), o fator de abrangência (k) e os graus de liberdade (Veff).

Na tabela 5 e tabela 6 são informados os tempos de usinagem de cada peça *em minutos (′) e segundos (′′),* de acordo com o registro no software CAM, assim como os resultados obtidos do relatório da Mitutoyo para os respectivos blocos de PMMA.

Tabela 5 Resultados apresentados no relatório da Mitutoyo utilizando o bloco de PMMA da empresa Provi-Cad (14 mm)

Atividade	Nominal (mm)	O1 (mm)	N1 (mm)	L1 (mm)	S1 (mm)	C1 (mm)
Tempo de usinagem	-	*26′09′′*	*26′31′′*	*26′11′′*	*26′41′′*	*26′22′′*
Rampa	7,0	6,832	6,827	6,841	6,807	6,834
	7,0	6,819	6,866	6,8	6,843	6,843
Comprimento	10,0	9,839	9,912	9,880	9,769	9,885
	10,0	9,853	9,910	9,869	9,806	9,922
Largura	10,0	9,794	9,873	9,771	9,881	9,887
	10,0	9,829	9,881	9,835	9,92	9,949
Altura	10,0	10,225	10,117	10,187	*10,355*	10,220
	10,0	10,289	10,091	10,195	10,334	10,202
Furo	5,0	5,004	5,009	*5,068*	5,013	5,044
Degrau 1	2,0	2,014	1,989	2,004	2,016	2,002
Degrau 2	1,0	0,991	1,000	0,995	0,986	0,998
Degrau 3	0,5	*0,483*	0,495	0,492	*0,476*	0,490

Os resultados foram inseridos em uma planilha, desta forma foi calculado o erro de cada cota das peças subtraindo o valor nominal pelo valor medido. À vista disso, foi possível identificar que os maiores erros estavam nas cotas que possuem os valores mais altos, *destacando-se um erro máximo de 355,2 µm para ambos os blocos de PMMA e erro médio e desvio padrão de 222,720 e 93,992 para o bloco 1 e 206,120 e 97,004 para o bloco 2, respectivamente*. Já para pequenos deslocamentos o maior erro foi de 16,8 µm para o bloco de PMMA da empresa Protitec e 23,5 µm para o bloco de PMMA da empresa Provi-cad. Em relação a geometria do furo, o maior erro encontrado foi de 133,3 µm para o bloco de PMMA da empresa Protitec e 68 µm para o bloco de PMMA da empresa Provi-cad.

Tabela 6 Resultados apresentados no relatório da Mitutoyo utilizando o bloco de PMMA da empresa Protitec (16 mm)

Atividade	Nominal (mm)	O2 (mm)	N2 (mm)	L2 (mm)	S2 (mm)	C2 (mm)
Tempo de usinagem	-	*26′49′′*	*26′58′′*	*26′25′′*	*27′04′′*	*25′58′′*
Rampa	7,0	6,859	6,827	6,802	6,825	6,845
	7,0	6,873	6,836	6,837	6,848	6,855
Comprimento	10,0	9,872	9,791	9,819	9,776	9,888
	10,0	9,923	9,827	9,842	9,817	9,935
Largura	10,0	9,886	9,827	9,808	9,952	9,950
	10,0	9,898	9,870	9,863	9,981	9,976
Altura	10,0	10,147	10,09	10,203	*10,355*	10,226
	10,0	10,219	10,124	10,203	10,346	10,209
Furo	5,0	5,046	*5,133*	5,033	5,032	5,042
Degrau 1	2,0	2,006	2,01	2,004	2,003	2,004
Degrau 2	1,0	0,993	1,002	0,995	0,997	0,999
Degrau 3	0,5	*0,483*	0,499	0,490	0,488	0,490

Estes erros são elevados quando comparados com os valores informados em trabalhos científicos, que recomendam imprecisões menores que 120 µm como clinicamente aceitáveis [12].

O maior erro encontrado foi constatado no maior valor da dimensão da cota usinada e isso pode ser explicado, pois este equipamento opera com motores de passo sendo que a resolução do deslocamento de cada eixo é de 1,5625 µm e o controle é em malha aberta, já que não há sensores para monitorar o deslocamento/velocidade dos eixos, logo o erro vai se acumulando conforme o aumento do deslocamento no processo de usinagem.

Já em relação a análise das 10 peças usinadas, foi possível identificar que a peça que mais apresentou erros nas medidas para ambos os blocos de PMMA, é a peça que estava na posição Sul, enquanto a peça que estava na posição Norte apresentou os menores erros nas medidas.

Sobre o tempo de fresagem, vale destacar que no processo de confecção das peças ambos os blocos tiveram tempos médios de usinagem semelhantes, sendo que o bloco de PMMA de 14 mm de espessura da empresa Provi-Cad obteve uma média de 26 minutos e 23 segundos e o bloco de PMMA de 16 mm de espessura da empresa Protitec obteve uma média de 26 minutos e 39 segundos. Logo, podemos concluir que quanto maior a espessura do bloco maior será o tempo de usinagem, isso ocorre devido à necessidade da fresadora realizar o desbaste do material desnecessário.

IV. Conclusão

Este trabalho propôs um método para analisar a qualidade de usinagem de uma fresadora odontológica utilizando o material de PMMA. Para isso, o material de dois diferentes fornecedores foi utilizado para identificação dos eventuais erros de fresagem. Os resultados mostraram que é possível definir a região Norte do equipamento para a confecção de próteses com maior precisão, assim como quanto menor a dimensão da peça melhor a qualidade.

Em situações que envolvem alto grau de criticidade na aplicação de prótese dentária no paciente este estudo contribui para uma decisão mais assertiva do desenvolvedor da prótese que utiliza o equipamento CORiTEC 250I.

Também é importante ressaltar que o método desenvolvido, em conjunto com os resultados apresentados possibilitam a comparação e validação de novos projetos nacionais de fresadoras odontológicas.

Para trabalhos futuros será realizada a verificação da mesma peça, com os mesmos parâmetros de usinagem, aplicados para outras fresadoras odontológicas que utilizam o mesmo software CAM. *Tem-se por objetivo a análise quantitativa das dimensões e tempo de usinagem de cada equipamento disponível no mercado nacional. Busca-se também realizar estudos com escâner de alta resolução para análise de superfícies irregulares*.

Agradecimento

Agradecimentos para Alexandre Matias, Anderson Conrado Jeanini e Diéssica de Azevedo pelas contribuições com o trabalho.

Conflito de interesse

Os autores declaram que não há conflitos de interesses.

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CBEB 2020 notification for paper 150

1 message

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SUBMISSION: 150
TITLE: Análise da qualidade de usinagem da fresadora odontológica aplicada ao material PMMA (Analysis of the machining quality of a dental milling machine applied to PMMA material.)
AUTHORS: Julio Conforto, Yago Santana Leal and Fábio Kurt Schneider

---------- Overall evaluation ----------
The article aims to analyze the machining quality of a dental milling machine applied to the PMMA material, given that the equipment does not provide precision parameters for machining this material. Machining performance was evaluated using PMMA from two different manufacturers.

The authors developed a good study; however, the article's scientific contributions are limited. The reviewer offers the following suggestions to improve the manuscript:

1) Abstract: Discuss the main contributions and limitations of the study in greater detail.
2) Introduction: Explain the research problem addressed in the study in greater detail.
3) Introduction: Include, at the end of the section, an outline of the paper's structure.
4) Materials and Method: Include a flowchart illustrating the step-by-step procedure followed to accomplish the objectives of the study.

5) Results: Improve the analysis of the results by providing a more thorough discussion and explanation of the findings.
6) Conclusion: The conclusion should be rewritten, as it currently discusses the results rather than presenting the study's scientific conclusions.

- - - - - - - - - - - - - REVIEW 2 - - - - - - - - - - - -
SUBMISSION: 150
TITLE: Análise da qualidade de usinagem da fresadora odontológica aplicada ao material PMMA (Analysis of the machining quality of a dental milling machine applied to PMMA material.)
AUTHORS: Julio Conforto, Yago Santana Leal and Fábio Kurt Schneider

---------- Overall evaluation ----------
The manuscript is written in a somewhat confusing manner. The authors state that they will use a milling machine; however, they compare different models throughout the text, which is unnecessary since the study reports the results obtained with only one of them.
The authors alternate between the present and future tenses when describing the experiments and decisions.
The overall writing of the manuscript could be improved to make it more polished, with more complete and better-connected sentences that encourage the reader to continue reading.
The text in Figure 3 is too small and should be enlarged.

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TITLE: Análise da qualidade de usinagem da fresadora odontológica aplicada ao material PMMA

---------- REVIEW 1 ----------
SUBMISSION: 150
TITLE: Análise da qualidade de usinagem da fresadora odontológica aplicada ao material PMMA
AUTHORS: Julio Conforto, Yago Santana Leal and Fábio Kurt Schneider

---------- Overall evaluation ----------
O artigo se propõe a realizar uma análise da qualidade de usinagem da fresadora odontológica aplicada ao material PMMA visto que o equipamento não apresenta os parâmetros de precisão da usinagem deste material. Foi avaliada a usinagem no material PMMA oriundo de 2 fabricantes distintos.

Os autores desenvolveram um bom trabalho, porém as contribuições cientificas do artigo são baixas. O revisor propõe algumas considerações no trabalho no intuito de aprimorar:

1) Resumo: Explorar em detalhes as principais contribuições e limitações do trabalho.
2) Introdução: Explicar em detalhes o problema de pesquisa explorado no trabalho.
3) Introdução: Apresentar ao final do capítulo a estrutura do artigo.
4) Material e Método: Criar um fluxograma mostrando o passo-a-passo do procedimento a ser realizado para o cumprimento da proposta do artigo.

5) Resultados: Aprimorar a análise dos resultados, explorando e explicando os resultados alcançados.
6) Conclusão: A conclusão precisa ser refeita, visto que realiza uma análise dos resultados e não uma análise cientifica do trabalho.

---------- REVIEW 2 ----------
SUBMISSION: 150
TITLE: Análise da qualidade de usinagem da fresadora odontológica aplicada ao material PMMA
AUTHORS: Julio Conforto, Yago Santana Leal and Fábio Kurt Schneider

---------- Overall evaluation ----------
O artigo está escrito de forma um tanto confusa. Os autores indicam que usarão uma fresadora, mas no texto fazem a comparação de diferentes modelos, que seria dispensável já que trata dos resultados de uma delas.
Os autores misturam o tempo presente e o tempo futuro na descrição dos ensaios e decisões.
A redação geral do artigo pode ser melhorada, para que se torne mais elegante, com frases mais completas e concatenadas para estimular o leitor na leitura.
A figura 3 está com o texto pequeno e deve ser editado com texto maior.

Implementation of a Speed Controller Based on FPGA for Engines Used in Mobile Robotics.

Author: Júlio Conforto, student of Electrical Engineering at the Federal Technological University of Parana - *Campus* Cornélio Procópio / PR, Brazil. Scientific Initiation Scholarship Fundação Araucária. E-mail: julio.conforto@hotmail.com

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Collaborator: Hugo Vinicius Dias Silva, master's student of Electrical Engineering at Federal Technological University of Parana – *Campus* Cornélio Procópio / PR, Brazil. Bolsista da CAPES. Email: hugolond@gmail.com

1. Introduction

Automatic control has played a vital role in the advancement of engineering and science (Ogata, 1998), it is extremely important for robotic systems, which require an efficient control at speed.

This work aims to contribute in developing a platform for educational robotics to “Ninho de Pardais” Project (VALLIM et al., 2009). Within this context, it is proposed a FPGA implementation of a proportional action controller with the update topology in the output, applied to current motors (DC).

2. Methods

To develop this controller was used a DE2 embedded board, a DC motor and an encoder sensor. On DE2 embedded board was devised an algorithm that performs control activities of the engines and interprets the sensor data. It was also necessary to develop a device to make the communication between the embedded board, motors and sensors, so a driver was designed for power, which allows the isolation and the input and output signal conditioning.

2.1. Optimization of the proportional action control implemented for the DC motor speed system

The use of this controller is due to the fact that it is easily implementable and versatile (Ogata, 1998). This speed control topology includes the sum of the output of the system with the result of multiplying the error with the proportional gain (Kp). The topology used is similar to the proportional control action, and is represented in equation 1.

$$Y_{n+1}(t) = K_p * e(t) + Y_n(t) \qquad (1)$$

Where: Y is the output signal; e is the error signal; Kp is the proportional gain.

2.2. Mathematical Modeling

Mathematical modeling of the system is a set of equations representing the dynamics of the system as accurately as possible. A dynamic system can be represented in several different ways (Ogata, 1998).

The mechanical, electrical, industrial, biological, etc., dynamic system can be represented by differential equations (Ogata, 1998). This representation is devised by the acquisition of data, which are obtained experimentally.

2.3. Data Acquisition

In order to obtain these points was built a structure in which the FPGA embedded board sends a signal to the fixed voltage DC motors, and reads the signal from the encoder sensor in parallel. The result of this process is transmitted to the computer. There were stored 1644 discretized points were stored in a spreadsheet.

2.4. Identification systems

The identification of the system has three steps: determine the structure of the system, estimate parameters and validate the model estimated. The parameter estimation seeks to determine the best values to make the estimated model as similar as possible to the real system (COELHO, 2004).

In this paper was applied MATLAB to deal with the discretized points and develop the mathematical modeling. The composition of the system parameters was performed through the System Identification Toolbox. The estimated model equation generated by the tool is contained in equation 2.

$$G(s) = \frac{0.99748}{1+0.062379s} * e^{-0.013716s} \quad (2)$$

Using the Systems Identification Toolbox, the model estimated is obtained with an accuracy of 67.2% when compared with the real system.

2.5. System Analysis

As Ogata (1998), the root locus method developed by W. R. Evans, allows the representation practically all the values that admit the system stability. The range of stability of the proportional gain is between 0 and 7.62. Employing the method of Ziegler-Nichols, it gets the value of 0.91187 for the proportional gain. A 0.5 gain was obtained experimentally.

3. Result for DC motors control

Simulink was used to perform the validation of the speed control. The standard signal applied to the controller input was step. Figure 1 illustrates the system response.

The error system to step input was 0, analyzing this value it is clear that the system has a satisfactory answer, being a stable and with no errors (steady state). From this analysis, the controller was implemented in the FPGA processor.

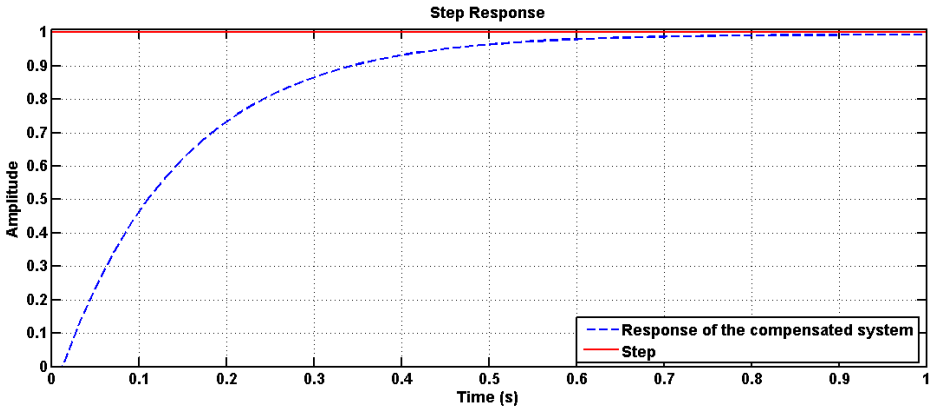


Figure 1: Response of the compensated system

3.1. Result of the implementation in FPGA

The algorithm implemented in the FPGA calculates the difference between the desired speed (set point) and the value measured by the sensor. This difference is multiplied by the proportional gain and added to the engine speed (PWM). The model of the algorithm is illustrated in Figure 2.

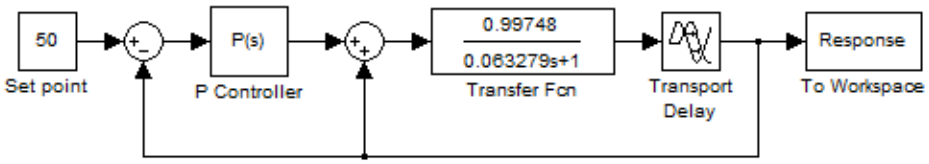


Figure 2: Model algorithm implemented in FPGA

4. Conclusion

For speed control of DC motor, it was developed a closed-loop system using a proportional controller with an update in the output. This control initially presented satisfactory results regarding the versatility, stability, errors (steady state) and implementation, however, as it will be used as a platform for educational robotics, it must be developed a more efficient effective system, with a low cost. satisfying the performance and stability conditions, within the limits of the operational elements involved. As a proposal for continuity, it intends to apply a proportional-integrative controller for the system speed.

5. References

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Fwd: Your SForum 2012 Submission (Number 17)

From Marcel Danilo <marceldanilo@gmail.com>
Date Wed, 08/01/2012, 10:49 PM
To Marcos Vallim <mvallim@gmail.com>; Júlio Conforto <julio.conforto@hotmail.com>

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From: <sforum.2012pc@gmail.com>
Date: 2012/8/1
Subject: Your SForum 2012 Submission (Number 17)
To: marceldanilo@gmail.com

Dear Mr. Marcel Siqueira:

On behalf of the SForum 2012 Program Committee, I am delighted to inform you that the following submission has been accepted to appear at the conference:

A FPGA-based Robotics Platform: Sensing and Control Aspects

The Program Committee worked very hard to thoroughly review all the submitted papers. Please repay their efforts, by following their suggestions when you revise your paper.

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Best Regards,
Julio Carlos Balzano de Mattos and Manoel Eusebio de Lima
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SForum 2012 Reviews for Submission #17
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Title: A FPGA-based Robotics Platform: Sensing and Control Aspects

Authors: Marcel Danilo Alves Siqueira, Julio Conforto and Marcos Banheti Rabello Vallim
==========
REVIEWER #1
==========

Reviewer's Scores

Overall Evaluation: 5
Reviewer's Confidence: 3
Relevance and Timeliness: rate the importance and timeliness of the topic addressed in the paper within its area of research.: 3
Technical Content and Scientific Rigour: rate the technical content of the paper (e.g.: completeness of the analysis or simulation study, thoroughness of the treatise, accuracy of the models, etc.), its soundness and scientific rigour.: 3
Novelty and Originality: rate the novelty and originality of the ideas or results presented in the paper.: 2
Quality of presentation: rate the paper organization, the clearness of text and figures, the completeness and accuracy of references.: 4

Comments

Resuming, the paper presents the project of a robotic platform based on FPGA, detailing some details about the development of this system. Since the proposal is obtain a low cost solution, I lack some cost analysis about the presented solution.

In a more critical analysis, it is necessary to say that this work does not have a scientific contribution for the Microelectronics or hardware design area. However, the work is valid for an student forum, and can be considered was well-organized and well-written.

The paper should include the author's affiliation bellow the names.
INTRODUCTION
"This paper presents aspects of hardware about the robotics platform for research and educational usage."
Suggestion:
"This paper presents aspects of the project of the hardware module for the robotics platform proposed for research and educational usage."
"Initially we present the hardware module, showing its processing, input and output levels"
Suggestion: "Initially," (INSERT comma)
"Following the same order, the results are presented with base on the outlined proposals on the methodology." -> Which methodology? Until now a methodology was not presented!
"Finally, the conclusions are arranged, the employees of the work mentioned and shown the main references."
-> What means "the employees of the work mentioned"? In think "employees" are not the correct word to be used here.
-> Usually, references are not commented in the paper organization paragraph, since it is not part of paper body.
"The processing module comprises an embedded system... similarly to what is within a microcontroller" -> Today, the concept of embedded system is more related to a complete system instead of be limited of a processor or microcontroller!!!!
Pg 1 : please insert reference for the software Qsys.

Section B: "of communicating between the DE2 and the PC." What means DE2? Please, explain in the text.

"This idea was adopted, as the Figure 2 shows." and in next paragraph " In this illustration," -> Please, joint both paragraph since refer to the same example.

Please, insert the reference for Lego kit.

Conclusion:

Please, all paragraphs could be joined.
The first sentence should be detailed. Why sensing and control appears only in the paper title?

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REVIEWER #2

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Reviewer's Scores

Overall Evaluation: 6

Reviewer's Confidence: 4

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Novelty and Originality: rate the novelty and originality of the ideas or results presented in the paper.: 3

Quality of presentation: rate the paper organization, the clearness of text and figures, the completeness and accuracy of references.: 4

Comments

Nice work !

Please be advised to review the points mentioned below:

1)

1st paragraph of introduction:

FROM: the high cost makes they are not part of the reality of Brazilian public education.

TO: the high cost makes them not part of the reality of Brazilian public education.

2)

Do not split table II

3)

In section 2B, write the following paragraph between fig 3 and 4 :

Using the mathematical model and the position controller tuned to the gains Kp = 0.850 and Ki = 18.88, we found a settling time of 1.4 seconds and about overshoot of 45.4% to a step input. Figure 4 shows the response to a unit step of the compensated system.

4)

Correct the paragraph below:

FROM: Is shown in Figure 6 the step response for the position, where the settling time was 2.0 seconds and overshoot 5.37%.

TO: Figure 6 shows the step response for the position, where the settling time was 2.0 seconds and overshoot 5.37%.

5)
Also, write the corrected paragraph above between fig 5 and 6.

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A FPGA-based Robotics Platform: Sensing and Control
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REVIEWER #1
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Reviewer's Scores

Overall Evaluation: 5
Reviewer's Confidence: 3
Relevance and Timeliness: rate the importance and timeliness of the topic addressed in the paper within its area of research.: 3
Technical Content and Scientific Rigour: rate the technical content of the paper (e.g.: completeness of the analysis or simulation study, thoroughness of the treatise, accuracy of the models, etc.), its soundness and scientific rigour.: 3
Novelty and Originality: rate the novelty and originality of the ideas or results presented in the paper.: 2
Quality of presentation: rate the paper organization, the clearness of text and figures, the completeness and accuracy of references.: 4

Comments

Resuming, the paper presents the project of a robotic platform based on FPGA, detailing some details about the development of this system. Since the proposal is obtain a low cost solution, I lack some cost analysis about the presented solution.

In a more critical analysis, it is necessary to say that this work does not have a scientific contribution for the Microelectronics or hardware design area. However, the work is valid for an student forum, and can be considered was well-organized and well-written.

The paper should include the author's affiliation bellow the names.
INTRODUCTION
“This paper presents aspects of hardware about the robotics platform for research and educational usage.”
Suggestion:
“This paper presents aspects of the project of the hardware module for the robotics platform proposed for research and educational usage.”
“Initially we present the hardware module, showing its processing, input and output levels”
Suggestion: “Initially,” (INSERT comma)
“Following the same order, the results are presented with base on the outlined proposals on the methodology.” -> Which methodology? Until now a methodology was not presented!
“Finally, the conclusions are arranged, the employees of the work mentioned and shown the main references.”
-> What means “the employees of the work mentioned”? In think “employees” are not the correct word to be used here.
-> Usually, references are not commented in the paper organization paragraph, since it is not part of paper body.
“The processing module comprises an embedded system... similarly to what is within a microcontroller” -> Today, the concept of embedded system is more related to a complete system instead of be limited of a processor or microcontroller!!!!
Pg 1 : please insert reference for the software Qsys.

Section B: “of communicating between the DE2 and the PC.” What means DE2? Please, explain in the text.

“This idea was adopted, as the Figure 2 shows.” and in next paragraph “ In this illustration,” -> Please, joint both paragraph since refer to the same example.

Please, insert the reference for Lego kit.

Conclusion:
Please, all paragraphs could be joined.
The first sentence should be detailed. Why sensing and control appears only in the paper title?

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REVIEWER #2

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Reviewer's Scores

Overall Evaluation: 6

Reviewer's Confidence: 4

Relevance and Timeliness: rate the importance and timeliness of the topic addressed in the paper within its area of research.: 4

Technical Content and Scientific Rigour: rate the technical content of the paper (e.g.: completeness of the analysis or simulation study, thoroughness of the treatise, accuracy of the models, etc.), its soundness and scientific rigour.: 3

Novelty and Originality: rate the novelty and originality of the ideas or results presented in the paper.: 3

Quality of presentation: rate the paper organization, the clearness of text and figures, the completeness and accuracy of references.: 4

Comments

Nice work !

Please be advised to review the points mentioned below:

1)

1st paragraph of introduction:

FROM: the high cost makes they are not part of the reality of Brazilian public education.

TO: the high cost makes them not part of the reality of Brazilian public education.

2)

Do not split table II

3)

In section 2B, write the following paragraph between fig 3 and 4 :

Using the mathematical model and the position controller tuned to the gains Kp = 0.850 and Ki = 18.88, we found a settling time of 1.4 seconds and about overshoot of 45.4% to a step input. Figure 4 shows the response to a unit step of the compensated system.

4)

Correct the paragraph below:

FROM: Is shown in Figure 6 the step response for the position, where the settling time was 2.0 seconds and overshoot 5.37%.

TO: Figure 6 shows the step response for the position, where the settling time was 2.0 seconds and overshoot 5.37%.

5)
Also, write the corrected paragraph above between fig 5 and 6.

An FPGA-Based Robotics Platform: Sensing and Control Aspects

Marcel D. A. Siqueira, Júlio Conforto and Marcos B. R. Vallim
Centro de Experimentação Ninho de Pardais
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ABSTRACT
This paper presents the development of three modules of a robotics platform, for processing, sensing and control. The platform includes three main modules: mechanical module, software module and hardware module, being the last one the subject of this paper. The hardware is based on FPGA and described through VHDL, aiming flexibility of prototyping and feasibility of structural changes. We have used a Cyclone II FPGA to base the prototype and a Nios II soft processor to run application algorithms. In order to read analog signals, we have used a PWM reading technique. Based on a Lego NXT motor a mathematical model was calculated and projected PI control modules.

Keywords
FPGA, Nios II, Robotics Platform.

1. INTRODUCTION
Robotics market provides from simple and flexible robotics kits as Lego® Robotics and Fischertechnik® to other more expensive and sophisticated, as Festo® robots [4]. Spread the use of these kits to public schools is a challenge given the fact the its high cost keeps them out of the reality of Brazilian public education [6].

The uses of robotics is seen as an incentive for students to follow science and technological careers. With this concept, the Ninho de Pardais project has the development of a robotics kit as one of its main goals. This project is supported by the Financier of Studies and Projects (FINEP), and is formed by high school and engineering students, professors and a psychopedagogical team [12].

The development of the kit is intended to provide robotics in public schools, while it can be also used as a development platform on research. The kit is designed by electrical and mechanical engineering students, all of them guided by a team of engineering and co-related areas professors.

With a DE2 development board, the platform development makes usage of FPGA (Field-Programmable Gate Array) prototyping, serving two different needs. The use of FPGA allows to find a light structure for a microcontroller, and therefore manufacture the robotic platforms for educational purposes with cost lower than commercial kits. Within the research scope, the usage of FPGA also is interesting because it gives freedom to develop digital circuits dedicated to the robot applications, not limiting the platform performance to the fixed structure of a microcontroller.

This paper presents aspects of the project of the hardware module for the robotics platform proposed for research and educational usage. In the form of a modular kit, it is designed as a tool for robotics workshops with high school students.

The works is presented under sensing and control aspects. Initially, we present the hardware module, showing its processing, input and output levels. Following the same order, the results are presented based on the structure proposed. Finally, the conclusions are made, considered the acknowledgment of contributors and the references are shown.

2. HARDWARE MODULE
The hardware module of the platform was divided into three parts: the processing module, sensing module and motors control module, being the first fully implemented in FPGA and the others with hardware parts divided into internal and external to the FPGA. Figure 1 shows this modular structure. The reconfigurable hardware parts are described through VHDL (VHSIC Hardware Description Language, VHSIC - Very High Speed Integrated Circuits). This section is devoted to show the processing module, the sensing technique and the motor control module, respectively.

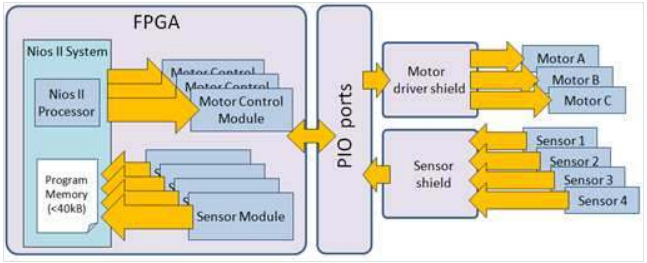


Figure 1: Hardware structure of the platform

2.1 Processing Module
In order to process sensor signals and control motors based on a user algorithm, a processor was employed. The processing module comprises a system with a traditional arrangement of components similarly to what is within a microcontroller.

The virtual processor Nios II is a component that can be parameterized and generated by the software Qsys [1]. It

is a 32-bit RISC general-purpose core processor. A Nios II system is equivalent to a microcontroller, which contains a processor, memory and a set of peripherals [2].

The Qsys contains a graphical interface through which allows to choose the desired components for a Nios system, such as processor units, audio and video interface, serial and parallel ports, etc. Once defined the set of components, Qsys generates a Nios system in the form of logical component, which can be instantiated in a design of reconfigurable logic in Verilog, VHDL or graphical blocks. Hence, the generated Nios system is instantiated in a Quartus II project, a development environment for reconfigurable logic circuits.

For Nios II system programming, the adopted tool was the Nios II Software Build Tools (SBT), which contains an Eclipse-based environment for Nios II systems programming and debugging. The environment combines compiler for C and C++, and implements all the steps of communicating between the DE2 and the PC.

2.2 Sensing Module

Any robot needs sensors to deduce what is happening in its world intending to be able to react to various situations [5]. Both the FPGA and the development board have no analog/digital converters (ADC), so it was necessary a strategy for reading analog sensor signals.

The adopted idea is the same used to drive the motors with PWM signal, but in the reverse flow. As the FPGA can only read the high and low logic levels, it is proposed that an analog signal modulates a PWM wave, thus it can be read by the FPGA.

A light sensor, for example, can provide a variable voltage level corresponding to the luminous intensity. This voltage level can modulate the duty cycle of a PWM wave. Finally, the FPGA can read the PWM wave signal modulated according to the light sensor. This idea was adopted, as Figure 2 shows. In this illustration, a variable signal modulates a PWM waveform. The strategy for the modulation is based in the comparison of the voltage generated by the sensor transducer to a triangular wave pattern. Adjusted with infinite gain, a comparator generates a square wave with variable duty cycle, a PWM wave. After decoupling voltage, the FPGA may interpret the analog signal.

The FPGA is able to read cyclically profile a PWM wave profile at high speed and controlled time. The beginning of a read cycle occurs on a positive edge. At this moment, the process checks the wave's logic state and increments a variable 'high' until the wave toggles to low level. Thus, the module switches the increment to a variable 'low', until the moment it detects a new rising edge. At this point, the process has read a full period of the PWM signal, and a mathematical operation of division sets its duty cycle.

2.3 Control Module

The DC motors are often used in robotics platforms. In this work, we developed a speed and position controller based on a Lego Mindstorms NXT® motor. This motor is made in its internal structure by a gear box, an incremental encoder

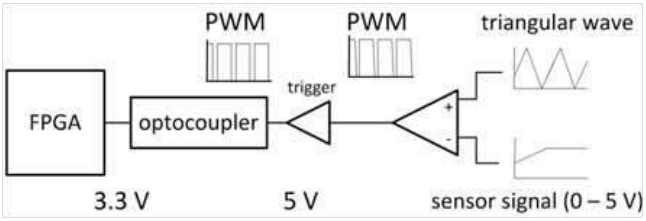


Figure 2: Analog to PWM signal conversion process

Table 1: Lego NXT® Motor parameters

Parameter	Symbol	Value
Armature resistance	R_a	7.6 Ω
Armature inductance	L_a	0.00488 H
Constant V/ω	K_m	0.3233 Nm/A
Back-efm	K_b	0.4908 Vs/rad
Shaft inertia moment	J	0.075 kgm^2
Viscous friction coefficient	B	0.00192 kgm^2/s

and a DC motor [9], with saturation limit of 1 A to supply current and average voltage excursion between 0 and 9 V.

Within this context, we designed a power driver to control three motors. Its structure enables the motors to operate in the four quadrants and allows input and output signals isolation and conditioning.

2.4 Modeling for the Lego Mindstorms NXT® Motor

For purposes of modeling and control, the equations are represented in the frequency domain, applying the Laplace transform [3].

In order to control the motor position and speed, we considered the parameters of the mathematical model of the LEGO motor suggested by [8], which are shown in table 1.

The mathematical model of the DC motor to the position system is deduced by means of a linear approximation of the actual engine [10]. Both equation 1 and 2 represent the model of the DC motor.

Through the derivation of equation 1, the equation 2 was found as a representation for the speed modeling.

$$G(s) = \frac{\theta(s)}{V_a(s)} = \frac{K_m}{s[(R_a + L_a s)(Js + B) + K_m K_b]} \quad (1)$$

$$G(s) = \frac{\omega(s)}{V_a(s)} = \frac{K_m}{(R_a + L_a s)(J.s + B) + K_m.K_b} \quad (2)$$

Both models use the voltage $Va(s)$ as input. The output of the first and second model are given by the angular position $\theta(s)$ and the angular speed $\omega(s)$, respectively.

As reference for the system model are used position (radians)

Table 2: Comparison of theoretical to experimental values read by the sensing module

duty cycle	theoretical values	real values
0%	0	0
20%	205	204
40%	409	411
60%	614	613
80%	818	817
100%	1023	1023

and angular speed (rad/sec) values, so these units must be converted to voltage values. To convert the speed value, the voltage is divided by the angular speed, and for position, is made by the ratio of the voltage with 2π.

2.5 PI Controller

In order to perform the robot movements with better accuracy a PI controller was chosen, which reduces the error in steady state, characterized as a phase lag compensator [10].

In a PI controller, the relationship between the output $U(s)$ and the input $E(s)$ is given by the transfer function of equation 3.

$$\frac{U(s)}{E(s)} = K_p + \frac{K_p}{T_i s} \tag{3}$$

where K_p is the proportional gain and T_i is the integral time. The parameters K_p and T_i are called tuning parameters of the controller [10].

3. RESULTS

This section shows results on hardware development following the same order used on methodology presentation.

3.1 Validation of Sensing Modules

For validation of sensing technique we built an approach with a light sensor modulating a PWM wave at frequency of 230 Hz. As a sample reading time is equal to a single period of the PWM signal, the sampling time was 4.34 ms.

At testes stage, the slow edges of the PWM signal generated reading errors. To fix it, a trigger was added to decrease the rising and falling times of edges of the PWM-modulated wave. The slowest time fell down from 164.0 μs to 3.024 μs, improving greatly the reading done by the FPGA.

The test based on these parameters is summarized in Table 2, comparing the theoretical and practical measurements of PWM signals performed by the FPGA. The value of the duty cycle was varied from 0 to 100% and converted into a 10-bit binary array, which was connected to a Nios system's parallel port, read through the Nios II SBT console. For applications in educational robotics, where sensor values are usually in the range 0-100, the results are satisfactory. Hence the proposal to read analog signals with the FPGA via PWM wave was well succeeded.

3.2 Implementation of PI Controllers

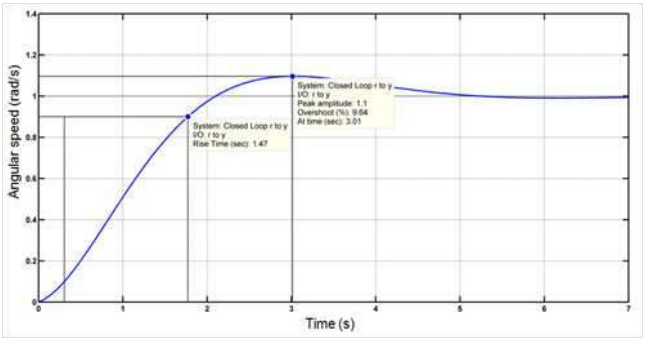


Figure 3: Step response of control action for angular speed

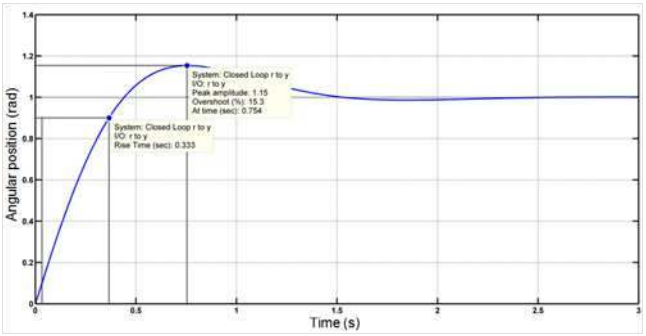


Figure 4: Step response of control action for angular position

To estimate the parameters of the proposed controller, we choose the root locus method through the determination of the parameters K_p and T_i. The root locus method is chosen because it presents good analysis for slow response systems. In addition, this method provides visualization of response in the time domain [10].

Using the mathematical model and the speed controller tuned to gains $K_p = 0.120$ and $T_i = 0.012$, there was obtained a settling time of 3.3 seconds and overshoot of 9.64% to a step input. Figure 3 shows the response to a unit step of the compensated system.

For position analysis, the mathematical model and the position controller tuned to the gains $K_p = 0.850$ and $T_i = 18.88$, we found a settling time of 1.4 seconds and about overshoot of 45.4% to a step input. Figure 4 shows the response to an unitary step of the compensated system.

In order to implemented the control action on digital hardware, it is required to discretize the controller model [7]. The discretization of the PI controller for this proposal was made applying the trapezoidal approximation for the integrative portion.

$$s = \frac{2(z-1)}{T_s(1+z)} \tag{4}$$

Replacing the term of equation 4 into equation 3, the equa-

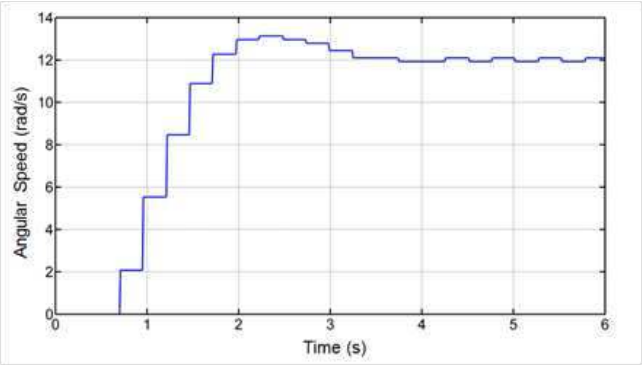


Figure 5: Real step response of control action for angular speed

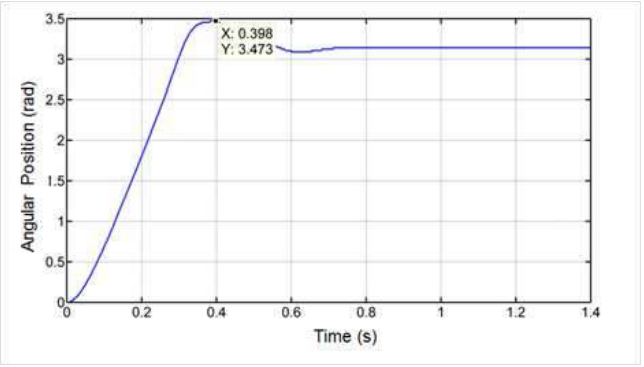


Figure 6: Real step response of control action for angular position

tion 5 is generated, with the transfer function in the complex domain.

$$\frac{U(z)}{E(z)} = K_p \left(1 + \frac{T_s(1+z^{-1})}{2T_i(1-z^{-1})}\right) \quad (5)$$

The difference equation is formulated in equation 6.

$$u[n] = u[n-1] + a(e[n] - e[n-1]) + \frac{b}{2}(e[n] + e[n-1]) \quad (6)$$

where $a = K_p$, $b = K_p(T_s/T_i)$.

This equation of the controller has three terms: the previous signal from the actuator, the proportional gain multiplying the difference between the current and previous error and the average of the integrative gain multiplying the sum of the current and the previous error.

The sampling time (T_s) used for position and speed systems were respectively 50 ms and 250 ms.

To position control the calculated values for the constants a and b were 0.850 and 0.95 respectively. In the speed controlling the calculated values for the constants a and b were 0.120 and 0.300 respectively.

With these values, the controller was implemented in FPGA. Figure 5 shows the real response of the speed controller. The settling time of the real system was 2.7 seconds, while the real maximum overshoot was 9.41%.

Figure 6 shows the step response for the angular position, where the settling time was 2.0 seconds and overshoot 5.37%.

4. CONCLUSION

This paper presented the methods and achieved results about the development of a FPGA-based robotics platform. For development usage the results for the PI control module are satisfactory. However the sensing module must be improved intending its application for some systems. The Nios II using proved be suitable and easy to use, but requires the license purchase if used in commercial products, therefore the project must include the migration to open source processors, as [11] suggests.

5. ACKNOWLEDGMENTS

This work is supported by the Financier of Studies and Projects - FINEP (Ref. 4971/2006), Federal Technological University of Paraná (UTFPR), and National Council for Scientific and Technological Development - CNPq Brazil.

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FEDERAL TECHNOLOGICAL UNIVERSITY OF PARANÁ
GRADUATE PROGRAM IN ELECTRICAL ENGINEERING AND INDUSTRIAL INFORMATICS

JÚLIO CONFORTO

DENTAL MILLING MACHINES: ASSESSMENT OF MACHINING QUALITY IN PMMA MATERIAL

MASTER'S THESIS

2021

CURITIBA

JÚLIO CONFORTO

FRESADORAS ODONTOLÓGICAS: AVALIAÇÃO DA QUALIDADE DE USINAGEM EM MATERIAL PMMA

Dental Milling Machines: Assessment of Machining Quality in PMMA Material

Master's Thesis submitted to the Graduate Program in Electrical Engineering and Industrial Informatics at the Federal Technological University of Paraná (UTFPR), as partial requirement for the degree of "Master of Science" - Concentration: Biomedical Engineering.
Advisor: Wilson José da Silva, Ph.D.
Co-Advisor: Fábio Kurt Schneider, Ph.D.

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Ministry of Education
Federal Technological University of Paraná
Curitiba Campus

JULIO CONFORTO

DENTAL MILLING MACHINES: ASSESSMENT OF MACHINING QUALITY IN PMMA MATERIAL

Master's research thesis submitted as requirement for the degree of Master of Science at the Federal Technological University of Paraná (UTFPR). Concentration: Biomedical Engineering.

Approval date: April 28, 2021

Prof. Wilson Jose Da Silva, Ph.D. – Federal Technological University of Paraná

Prof. Andreia Gerniski Macedo, Ph.D. - Federal Technological University of Paraná

Prof. Carlos Toshiyuki Matsumi, Ph.D. – Federal Institute of Santa Catarina - Ifsc

Prof. Jeferson Ferreira De Deus, Ph.D. - Federal Technological University of Paraná

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RESUMO

CONFORTO, Júlio. FRESADORAS ODONTOLÓGICAS: AVALIAÇÃO DA QUALIDADE DE USINAGEM EM MATERIAL PMMA. 241 f. Dissertação – Programa de Pós-graduação em Engenharia Elétrica e Informática Industrial, Universidade Tecnológica Federal do Paraná. Curitiba, 2021.

Este trabalho apresenta uma metodologia para avaliar a qualidade de usinagem de dois modelos semelhantes de fresadoras odontológicas com movimentação em 5 eixos comercializadas no Brasil: CORiTEC-250i da empresa Imes-Icore e DWX-50 da empresa Roland DG. Neste estudo foram utilizados discos de PMMA de 3 diferentes fabricantes nacionais, com registro na ANVISA, aplicados para a tecnologia CAD/CAM e distribuídos de acordo com suas espessuras: 14 mm e 20 mm da empresa Provi-CAD; 16 mm e 25 mm da empresa Protétic e 16 mm e 25 mm da empresa PrimaVita. Para viabilizar tal análise foram elaborados dois modelos de desenhos com geometrias regulares, a fim de avaliar a qualidade de usinagem utilizando os 4 e 5 eixos dos equipamentos. Estes desenhos foram condicionados em um *software* CAM Millbox e posicionados para serem usinados em todos os discos de PMMA utilizando a referência dos pontos cardeais: Norte, Leste, Oeste, Sul e Centro. **Portanto, foram usinadas para cada bloco de PMMA 5 amostras, produzindo 20 amostras para usinagem com a utilização dos 4 eixos do equipamento, e mais 20 amostras para usinagem com a utilização dos 5 eixos do equipamento. Ou seja, para cada modelo de fresadora odontológica foram confeccionadas 40 peças**. Estas peças foram enviadas para um laboratório de medições credenciado pela Rede Brasileira de Calibração onde foram elaborados relatórios informando os valores auferidos para cada cota, de cada peça. **Com a análise destes dados podemos informar para o meio científico a exatidão alcançada pelos equipamentos**, auxiliar o desenvolvedor de coroas dentárias (dentista ou protético) visando atenuar problemas e fornecer acurácia na adaptação da coroa dentária com o implante, melhorando o bem-estar do paciente, assim como gerar dados que podem ser comparados para a validação do desenvolvimento de projetos nacionais de fresadoras odontológicas.

Palavras-chave: Fresadoras Odontológicas, Tecnologia CAD/CAM, Discos de PMMA.

ABSTRACT

CONFORTO, Júlio. Dental Milling Machines: Assessment of Machining Quality in PMMA Material. 241 f. Dissertação – Programa de Pós-graduação em Engenharia Elétrica e Informática Industrial, Universidade Tecnológica Federal do Paraná. Curitiba, 2021.

This work presents a methodology to evaluate the machining quality of two similar models of dental milling machines with movement in 5 axes commercialized in Brazil: CORiTEC-250i from the company Imes-Icore and DWX-50 from the company Roland DG. In this study, PMMA discs from 3 different national manufacturers were used, registered with ANVISA, applied to CAD / CAM technology and distributed according to their thickness: 14 mm and 20 mm from the company Provi-CAD; 16 mm and 25 mm from the company Protétic and 16 mm and 25 mm from the company PrimaVita. To make this analysis feasible, two models of drawings with regular geometries were elaborated, in order to evaluate the machining quality using the 4 and 5 axes of the equipment. These drawings were conditioned in a CAM Millbox software and positioned to be machined in all PMMA disks using the reference of the cardinal points: North, East, West, South and Center. **Therefore, five samples were machined for each PMMA block, producing twenty samples for machining using the 4 axes of the equipment, and another twenty samples for machining using the five axes of the equipment.** That is, for each model of dental milling machine forty pieces were made. These parts were sent to a measurement laboratory accredited by the Brazilian Calibration Network, where reports were prepared informing the values earned for each dimension of each piece. **With the analysis of this data, we can inform the scientific environment of the accuracy achieved by the equipment**, assist the developer of dental crowns (dentist or prosthetic) in order to mitigate problems and provide accuracy in the adaptation of the dental crown with the implant, improving the well-being as well as generating data that can be compared to validate the development of national dental milling projects.

Keywords: Dental Milling Machines, CAD / CAM Technology, PMMA Discs.

I, Raphael Michels Fantinato de Moura, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.

Raphael Michels Fantinato de Moura. **Date: July 31, 2026.**

UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ
PROGRAMA DE PÓS-GRADUAÇÃO EM ENGENHARIA ELÉTRICA E INFORMÁTICA INDUSTRIAL

JÚLIO CONFORTO

FRESADORAS ODONTOLÓGICAS: AVALIAÇÃO DA QUALIDADE DE USINAGEM EM MATERIAL PMMA

DISSERTAÇÃO

2021

CURITIBA

JÚLIO CONFORTO

FRESADORAS ODONTOLÓGICAS: AVALIAÇÃO DA QUALIDADE DE USINAGEM EM MATERIAL PMMA

Dental Milling Machines: Assessment of Machining Quality in PMMA Material

Dissertação apresentada ao Programa de Pós-Graduação em Engenharia Elétrica e Informática Industrial, da Universidade Tecnológica Federal do Paraná (UTFPR), como requisito parcial para obtenção do título de “Mestre em Ciências” - Área de Concentração: Engenharia Biomédica.
Orientador: Dr. Wilson José da Silva.
Coorientador: Dr. Fábio Kurt Schneider.

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JULIO CONFORTO

FRESADORAS ODONTOLÓGICAS: AVALIAÇÃO DA QUALIDADE DE USINAGEM EM MATERIAL PMMA.

Trabalho de pesquisa de mestrado apresentado como requisito para obtenção do título de Mestre Em Ciências da Universidade Tecnológica Federal do Paraná (UTFPR). Área de concentração: Engenharia Biomédica.

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RESUMO

CONFORTO, Júlio. FRESADORAS ODONTOLÓGICAS: AVALIAÇÃO DA QUALIDADE DE USINAGEM EM MATERIAL PMMA. 241 f. Dissertação – Programa de Pós-graduação em Engenharia Elétrica e Informática Industrial, Universidade Tecnológica Federal do Paraná. Curitiba, 2021.

Este trabalho apresenta uma metodologia para avaliar a qualidade de usinagem de dois modelos semelhantes de fresadoras odontológicas com movimentação em 5 eixos comercializadas no Brasil: CORiTEC-250i da empresa Imes-Icore e DWX-50 da empresa Roland DG. Neste estudo foram utilizados discos de PMMA de 3 diferentes fabricantes nacionais, com registro na ANVISA, aplicados para a tecnologia CAD/CAM e distribuídos de acordo com suas espessuras: 14 mm e 20 mm da empresa Provi-CAD; 16 mm e 25 mm da empresa Protétic e 16 mm e 25 mm da empresa PrimaVita. Para viabilizar tal análise foram elaborados dois modelos de desenhos com geometrias regulares, a fim de avaliar a qualidade de usinagem utilizando os 4 e 5 eixos dos equipamentos. Estes desenhos foram condicionados em um *software* CAM Millbox e posicionados para serem usinados em todos os discos de PMMA utilizando a referência dos pontos cardeais: Norte, Leste, Oeste, Sul e Centro. **Portanto, foram usinadas para cada bloco de PMMA 5 amostras, produzindo 20 amostras para usinagem com a utilização dos 4 eixos do equipamento, e mais 20 amostras para usinagem com a utilização dos 5 eixos do equipamento. Ou seja, para cada modelo de fresadora odontológica foram confeccionadas 40 peças**. Estas peças foram enviadas para um laboratório de medições credenciado pela Rede Brasileira de Calibração onde foram elaborados relatórios informando os valores auferidos para cada cota, de cada peça. **Com a análise destes dados podemos informar para o meio científico a exatidão alcançada pelos equipamentos**, auxiliar o desenvolvedor de coroas dentárias (dentista ou protético) visando atenuar problemas e fornecer acurácia na adaptação da coroa dentária com o implante, melhorando o bem-estar do paciente, assim como gerar dados que podem ser comparados para a validação do desenvolvimento de projetos nacionais de fresadoras odontológicas.

Palavras-chave: Fresadoras Odontológicas, Tecnologia CAD/CAM, Discos de PMMA.

ABSTRACT

CONFORTO, Júlio. Dental Milling Machines: Assessment of Machining Quality in PMMA Material. 241 f. Dissertação – Programa de Pós-graduação em Engenharia Elétrica e Informática Industrial, Universidade Tecnológica Federal do Paraná. Curitiba, 2021.

This work presents a methodology to evaluate the machining quality of two similar models of dental milling machines with movement in 5 axes commercialized in Brazil: CORiTEC-250i from the company Imes-Icore and DWX-50 from the company Roland DG. In this study, PMMA discs from 3 different national manufacturers were used, registered with ANVISA, applied to CAD / CAM technology and distributed according to their thickness: 14 mm and 20 mm from the company Provi-CAD; 16 mm and 25 mm from the company Protétic and 16 mm and 25 mm from the company PrimaVita. To make this analysis feasible, two models of drawings with regular geometries were elaborated, in order to evaluate the machining quality using the 4 and 5 axes of the equipment. These drawings were conditioned in a CAM Millbox software and positioned to be machined in all PMMA disks using the reference of the cardinal points: North, East, West, South and Center. **Therefore, five samples were machined for each PMMA block, producing twenty samples for machining using the 4 axes of the equipment, and another twenty samples for machining using the five axes of the equipment.** That is, for each model of dental milling machine forty pieces were made. These parts were sent to a measurement laboratory accredited by the Brazilian Calibration Network, where reports were prepared informing the values earned for each dimension of each piece. **With the analysis of this data, we can inform the scientific environment of the accuracy achieved by the equipment**, assist the developer of dental crowns (dentist or prosthetic) in order to mitigate problems and provide accuracy in the adaptation of the dental crown with the implant, improving the well-being as well as generating data that can be compared to validate the development of national dental milling projects.

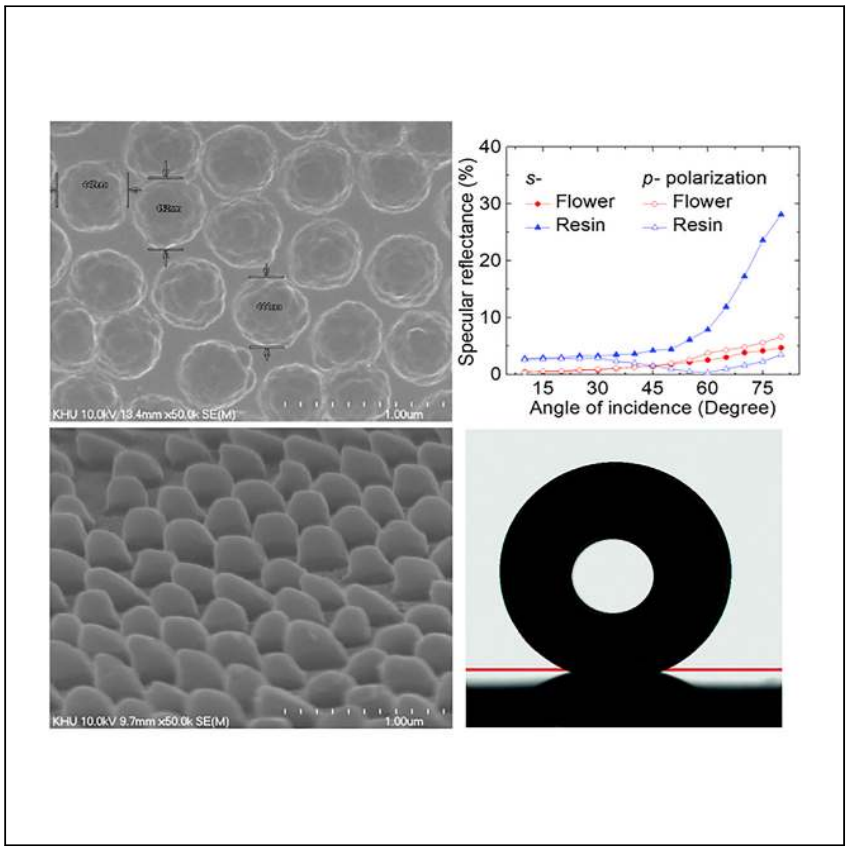
Keywords: Dental Milling Machines, CAD / CAM Technology, PMMA Discs.

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Photonic nanostructures mimicking floral epidermis for perovskite solar cells



Here, Vasilopoulou et al. report petal-inspired light-polymerized nanocoatings with light trapping, water repellence, and UV light and environmental moisture protection properties in perovskite solar cells (PSCs). The coatings increase power conversion efficiency to 24.61% and enable stable operation under AM 1.5G and UV light continuous illumination.

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Highlights

Petal-inspired photonic nanostructures are replicated in light-polymerized coatings

Antireflection and superhydrophobic function of conical structures

Perovskite solar cell (PSC) efficiency of 24.2% with coatings

UV light and environmental stability in PSCs were achieved

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Photonic nanostructures mimicking floral epidermis for perovskite solar cells

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SUMMARY

Here, we report photonic nanostructures replicated from the adaxial epidermis of flower petals onto light-polymerized coatings using low-cost nanoimprint lithography at ambient temperature. These multifunctional nanocoatings are applied to confer enhanced light trapping, water repellence, and UV light and environmental moisture protection features in perovskite solar cells. The former feature helps attain a maximum power conversion efficiency of 24.61% (21.01% for the reference cell) without any additional device optimization. Added to these merits, the nanocoatings also enable stable operation under AM 1.5G and UV light continuous illumination or in real-world conditions. Our engineering approach provides a simple way to produce multifunctional nanocoatings optimized by nature's wisdom.

INTRODUCTION

As our world witnesses severe climate change, a long overdue transition to alternative energy sources is imperative. Solar cells experience unprecedented growth; however, a major bottleneck to achieve power conversion efficiencies (PCEs) close to the Shockley-Queisser limit is the reflection losses at the transparent glass/air interface.[1] For example, in solar panels, nearly one-third of the incident solar irradiation is reflected, thus limiting the light-to-current conversion.[2] Several light management schemes, which include textured surfaces and antireflection coatings (ARs) placed on the transparent side of the solar cell, have been developed.[3,4] They aim to (1) redirect the light rays or trap them by total internal reflection, thus improving light incoupling at the front surface,[5] (2) enhance light absorption of semiconductors in weakly absorbing wavelength regions,[6] and (3) improve light management in solar cells, which includes photonic crystals,[7] diffraction gratings,[8] plasmonic nanostructures,[9] nanowires,[10] metamaterials,[11] randomly textured scattering surfaces,[12] and surface textures like honeycomb structures[13] or inverted pyramids.[14] These light management schemes have been developed for thick inorganic semiconductor solar cells and usually rely on vacuum deposition methods and complex nanopatterning schemes. Despite their success, they need to be modified (i.e., become simpler, lighter, and cost effective) in order to become compatible with low-cost, thin-film, solution-based photovoltaics such as organic and perovskite solar cells.

In the search for low-cost alternatives, researchers have also focused on biomimetic light-harvesting structures inspired by animals or plants. The former have attracted

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increasing attention, and prominent examples are antireflective surfaces mimicking the corneas of moth eyes and the transparent wings of cicada, blue *Morpho* butterfly, and hawk moths.[3,15,16] Natural moth-eye structures consist of ordered conical protrusions 250 nm in height with spaces of 200–250 nm. Analogs of the moth-eye structure have been widely reproduced by lithographic techniques and used as ARs on solar cells and glass windows.[17–19] Notably, they also possess self-cleaning properties, as their nanoscopic surfaces minimize droplets' adhesion to the substrate (static water contact angle values over 150°).[20,21] Still, their water repellence remains inferior compared with the superhydrophobic archetypal of natural *Nelumbo nucifera* (lotus) leaves (water contact angle higher than 170°).[22]

However, relatively little research has been conducted on light-harvesting structures mimicking plant leaves and flowers for solar cells, although evolution has found remarkable ways to optimize their light management features for their survival. For example, the petal adaxial epidermis (the epidermis orientated toward potential pollinators) of many angiospermae consists of conical cells similar to those of the corneal of moth eye. These effectively trap light, intensify their color, and warm the nectar, thus increasing their attractiveness to pollinators.[23,24] Flower petal epidermis also possesses superhydrophobic properties originating from nanostructuring.[25,26] Based on these promises, some recent papers report photonic structures replicated by flowers for thin-film solar cells.[27–31] These reports demonstrate enhanced light management in the case of replicas with a high aspect ratio approaching or even exceeding 1.0.[27,29]

Here, we replicate a series of nanocoatings from floral petal epidermal cells of various species, in particular, *Ranunculus repens*, *Anchusa officinalis*, *Aubrieta deltoidea*, *Geranium endressii*, and *Antirrhinum majus*. We verify the proposed correlation between the AR function and the aspect ratio of photonic structures.[27] We also demonstrate a link between AR, water repellence, and nanomorphology. We apply these nanocoatings in perovskite solar cells (PSCs), which attain a maximum PCE of 24.61% (21.01% for the reference cell) without any additional device optimization.[32–36] They also present excellent stability under continuous illumination with AM 1.5G or UV light (254 nm) and in real-world conditions, an indication that nanostructures inspired by nature can benefit many technological areas including emerging solar cell technologies, such as PSCs.

RESULTS AND DISCUSSION

Replication and properties of photonic structures

We selected flowers with colors spanning from pale yellow (*R. repens*) to intense burgundy (*Antirrhinum majus*), as color is related to floral antireflection function (Figure S1).[37] We replicated their petal epidermal cells by using soft UV nanoimprint lithography (soft UV-NIL) and commercially available materials such as polydimethylsiloxane (PDMS) and UV photocurable adhesives (resins). The details for the preparation of the replicas are given in the experimental procedures. In brief, the negative structure of the petal cells was first patterned in a PDMS master, which was used as a mold for the replication of floral cells on a liquid UV light polymerized acrylate urethane adhesive (Dymax, DYM 6–621). Afterward, the resin was poured onto the PDMS slab, irradiated with a mercury lab for 5 min, and then removed from the slab. No primer was applied before dropping the resin onto the PDMS, and the process was accomplished in ambient conditions.

The replicated photonic structures present profound differences as shown in scanning electron microscopy (SEM) images presented in Figures 1 and S2. The replica

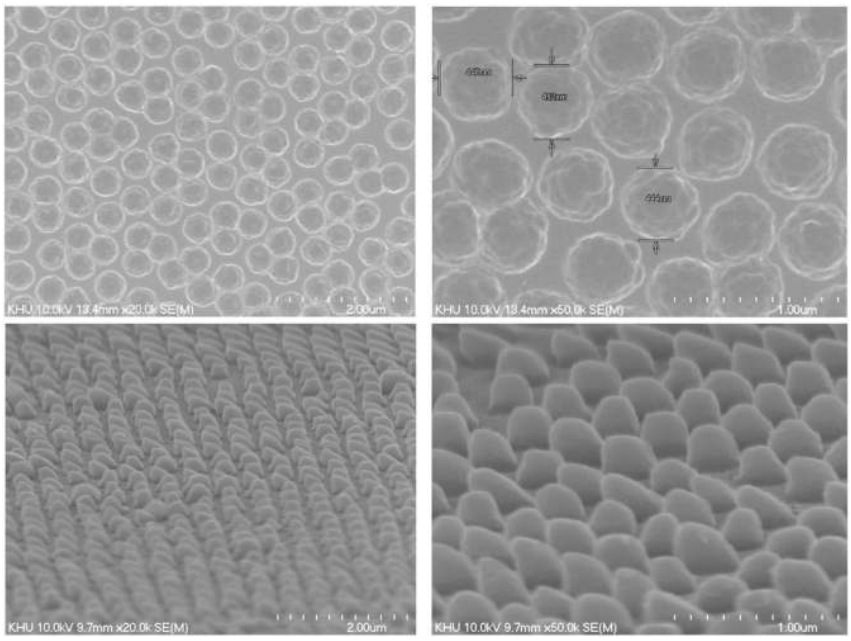


Figure 1. Replication of *Antirrhinum majus* petal adaxial epidermal cells

Top view (top) and tilted (bottom) SEM images of the replicas of the petal's adaxial epidermal layer cells of wild *A. majus* in UV-curing adhesive (DYM 6–621) (scale bar represents 1 and 2 μm).

of *R. repens* consists of dense conical nanoprotrusions 60 nm in height and 300 nm in their basis diameter (aspect ratio: 0.2). Films replicated from *A. officinalis* appear quite compact and are composed of densely packed papillate nanoprotrusions with a flat top surface similar to those of *A. deltoidea* and *G. endressii*; however, the nanoprotrusions in *G. endressii* replica are well separated between them. Moreover, the *Antirrhinum majus* replica consists of well-separated hierarchical conical nanostructures (around 360 nm in height and 450 nm in basis diameter, aspect ratio: 0.8), which feature structured peripheries with dimensions much smaller than the wavelengths of visible light (i.e., sub-wavelength). Notably, the petal adaxial epidermis of *A. majus* presents great similarity with both moth-eye conical nanostructures and lotus leaf conical hierarchical structures.[22,27]

The reflectivity of nanocoatings replicated from the adaxial petal epidemics of the selected floral species against the calculated aspect ratio of the petal nanostructures is shown in Figure S3A (angle of incidence [AOI] = 80°). The reflectivity of the uncoated glass is about 40% (also shown in this figure), and a monotonic decrease upon coating with photonic structures of increasing aspect ratio is observed, in agreement with previous reports.[27] The nanocoatings consisting of well-separated, individual protrusions with high aspect ratio and especially the conically shaped structures replicated by *A. majus* present the lower reflectivity and higher transmittance (Figure S3). This can be explained by taking into account the Fresnel equation,

$$R = (n_1 - n_2/n_1 + n_2)^2, \qquad \text{(Equation 1)}$$

which describes that the specular reflection at an interface between two media (where n_1 and n_2 are the refractive indices of the media)[38] should be changed with textured or rough interfaces. This is because the textured interface behaves as an effective medium with a gradually varying refractive index.[39] Given this continuous

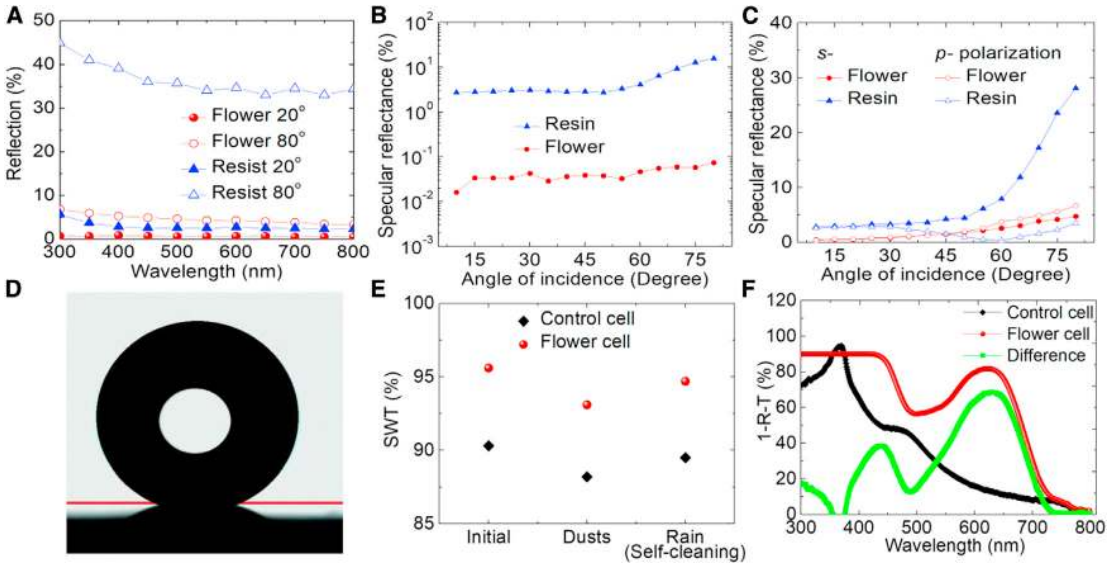


Figure 2. Antireflection function and superhydrophobicity of AR coatings replicated from wild *A. majus*

(A) Reflection spectra of flat DYM 6–621 resin and *A. majus*-replicated coating on the front glass side at AOI = 20° and 80°.

(B and C) Angle-resolved reflectance of flat resin and *A. majus*-replicated AR coating, illustrating specular reflectance measured as a function of AOI at a wavelength of 514 nm for both s- and p-polarized light.

(D) Water droplet on *A. majus*-replicated AR coating on a glass surface showing a static contact angle value of 179.8°.

(E) SWT values of the flat resin and the flower-replica-coated glass as a function of self-cleaning property. The SWT was evaluated by normalizing the transmittance spectra with the solar spectral photon flux AM 1.5G spectrum photonic flux integrated over a wavelength range of 350–800 nm.

(F) The simulated absorption spectra of control and flower cells using flat resin and flower-replicated AR coating, respectively, along with the absorption difference.

refractive index gradient, the incident light experiences no abrupt change in the refractive index, resulting in lower specular reflectance.[40] In particular, the Fresnel equation can be approximated as

$$R = (n_{eff} - n_g/n_{eff} + n_g)^2, \quad \text{(Equation 2)}$$

where the effective refractive index can be calculated as

$$n_{eff} = [f\, n_a^{2/3} + (1 - f)\, n_b^{2/3}]^{3/2}, \quad \text{(Equation 3)}$$

where f is the filling factor dependent on the geometry and aspect ratio of the textured structures. Tuning the geometry of the structures alters the effective refractive index, hence suppressing the specular reflectance on a textured or rough surface. Additionally, in photonic structures with sub-wavelength dimensions, light rays are scattered and tend to bend progressively, therefore changing their path and being trapped inside the semiconductor[41] (as illustrated in Figure S4). *A. majus* replica consists of conically shaped features decorated with small nanofeatures at their periphery, and it is thus expected that (1) suppression of the specular reflection at the conically textured interface and (2) enhanced Rayleigh scattering at the nanofeatures will synergistically contribute to the low reflectance and enhanced transmittance of this flower replica.

Indeed, the photonic structure exhibits extremely low reflectivity for the wide range of UV and visible light wavelengths (300–800 nm; Figure 2A) and for a varying AOI (Figure 2B). Compared with the reference sample, which is coated with a plain resist, the specular reflectance at the flower structure/air interface is reduced from 4% to

0.1% for close to normal incidence; the difference further increases for higher AOI. Besides the low specular reflection, an effective light management scheme should also present negligible reflection to s- and p-polarized light having the electric field perpendicular and parallel to the incidence plane, respectively.[42,43] *A. majus* replica exhibits very low reflectivity for both s and p polarizations over a broad spectral and AOI range, with the reflectance being below 0.1% for the entire visible spectrum at low AOI values (Figure 2C). The broadband and omnidirectional AR properties of our floral replica along with ease of fabrication and integration to any substrate are key factors demonstrating its suitability for solar cells. With their transmittance to be around 97% in the visible wavelength range, these nanocoatings are suited for application in the front transparent device cover. Notably, due to their adequate absorption in the UV part of the spectrum, they could act as protective buffers for the absorber (i.e., perovskite) layer, preventing degradation photoreactions.[44–48]

A critical factor for any AR coating applied to the front side of solar cells is their self-cleaning properties originating from water repellency.[49] Optical microscopy images of water droplets on plain glass, glass covered with flat resin, and flower replicas (Figures 2D and S5) present distinct differences. Floral-replicated nanocoatings exhibit ultra large contact angle values over 170° compared with 114° for flat resin and 32.03° for glass. *A. majus* hierarchical nanocoating features a static contact angle of 179.8°, larger than that of the natural lotus leaf (i.e., around 170°). The ultra-hydrophobic properties of this replica can be explained by taking into account the model proposed by Cassie-Baxter[50] for chemically heterogeneous (composite) surfaces (i.e., air within a porous or textured homogeneous surface). It is based on the consideration that a liquid droplet placed on a textured or rough feature rests on a heterogeneous composite air-solid surface. The apparent contact angle for a composite surface is given by

$$\cos\theta_{comp.} = f_1 \cos\theta_1 + f_2 \cos\theta_2, \quad \text{(Equation 4)}$$

where f_1, θ_1, and f_2, θ_2, are the fractional area and contact angle of the two materials, respectively (with $f_1 + f_2 = 1$). This model considers that the liquid droplet only touches the tip of the peaks of textured or rough solids, and, consequently, air pockets are formed between the droplet and the substrate (Figure S6). Considering that between the textured solid surface and the liquid droplet only air exists, the cosine of the angle θ_2 becomes -1, and the above equation can be written as

$$\cos\theta_{comp.} = f_1 (\cos\theta_1 + 1) - 1. \quad \text{(Equation 5)}$$

In that case, as the fraction of air increases, and, consequently, f_1 approaches zero, a contact angle approaching 180° is predicted for the composite. In addition, this model also predicts that the water drop can easily roll down from the surface and that the contact angle hysteresis is very small. A contact angle hysteresis of 1° is obtained for *A. majus* replica, indicating the ultra-hydrophobic properties of this structure. This endows the surface with self-cleaning properties as shown in Figure S7 and Videos S1 and S2, where flat resin (Video S1) and flower-replicated (Video S2) coatings on glass are tested for their self-cleaning function. Both were covered with yellow powder-like dust. Notably, the powder particles were clearly removed after dropping the water droplets at the surface without any residue. On the other hand, sufficient dust remains on the flat resin-coated glass.

A. majus replica on glass exhibits a solar-weighted transmittance (SWT) of ~95.6% significantly higher than that of the flat resin (~90.3%). This value was recovered after

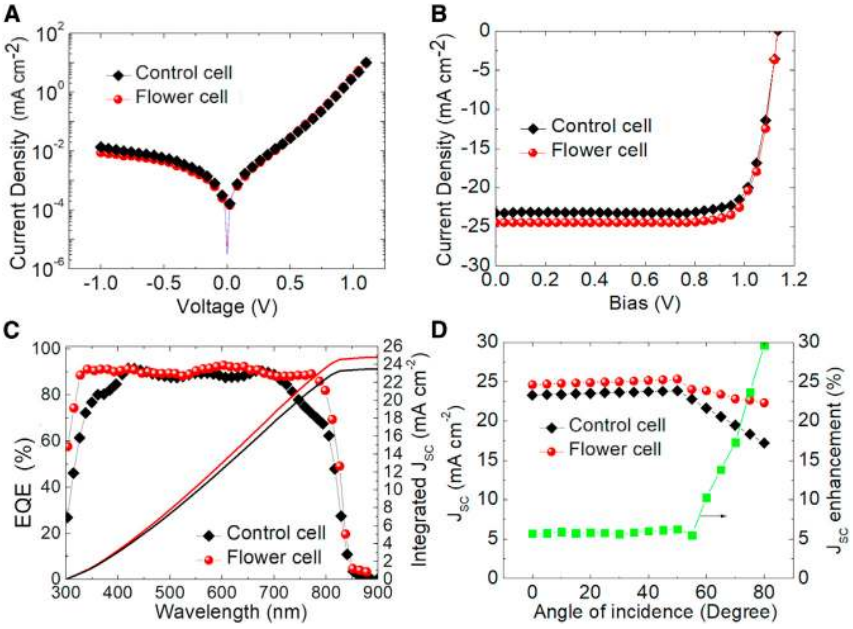


Figure 3. Application to PSCs

(A) The dark J-V curves of the flower cell and the control one.

(B and C) J-V characteristic curves are taken at a scan rate of 5 mV s^{-1} (B) and EQE spectra of the flower-replicated AR coating-based cell (red circles) and control cell (black diamonds) (C). The integration of the product of the AM 1.5G photon flux with the IPCE spectrum is also shown in (C).

(D) Angular dependence of J_{SC} values for flower cell and control cell with plain resin as AR coating, and the J_{SC} enhancement ratio in the flower cell compared with the control one.

the cleaning procedure (Figure 2E). SWT expresses the ratio of the photons transmitted to the total photons;[48] its high value in the case of flower replica indicates potentially improved light harvesting from the absorber layer. This is verified by the enhancement in simulated absorption spectra of PSCs based on triple cation halide perovskite emitter $(CsPbI_3)_{0.05}[FAPbI_3)_{0.83}(MAPbBr_3)_{0.17}]_{0.95}$ (Figure 2F).

Application to PSCs

We fabricated and tested two sets of PSC devices: those without the AR coating on the front glass side (termed hereafter as control devices) and those with the AR. The devices include a mesoporous titanium dioxide (TiO_2) electron-transport layer and a Spiro-MeOTAD hole-transport layer (Figure S8). Between the perovskite absorber and both charge transport layers, two-dimensional atomic-thick graphene nanosheets are inserted to passivate the interfaces and endow the device with high mobility.[51] The device using flat resin is referenced as a control cell, whereas that with the flower replica is termed a flower cell. Besides the AR nanocoating (either flat resin or *A. majus* replica), these cells are completely identical, indicating that any absorption difference is due to a mere antireflective effect.

The devices exhibit identical diode characteristics when measured in the dark (Figure 3A), as expected. Figures 3B and 3C present their current density-voltage (J-V) characteristics under AM 1.5G-simulated light illumination and external quantum efficiency (EQE) spectra, respectively. The effect of light trapping in the flower-replica-coated cell is manifested as a ~6% increase in short-circuit current density (J_{SC}) from 23.29 for the control cell to 24.62 mA cm^{-2} for the flower-based device (Table S1). This results in an increase in PCE from 21.01% to 22.20% (22.18% at maximum power

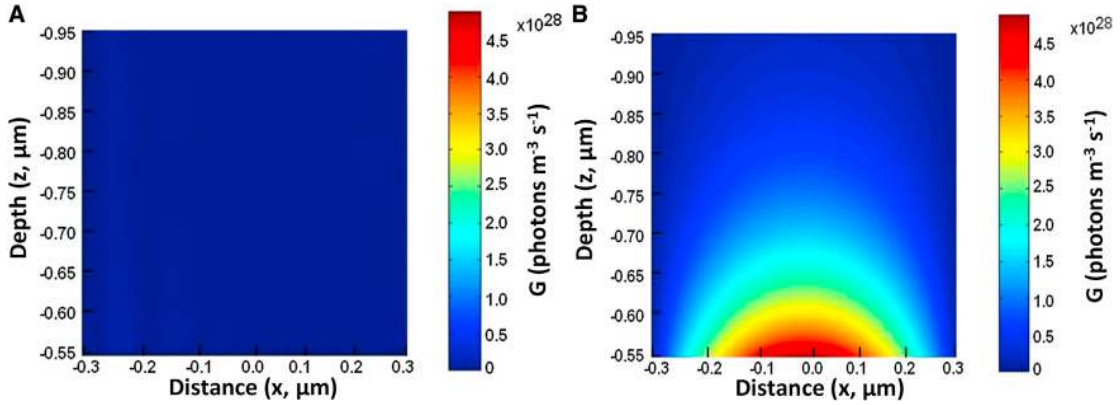


Figure 4. Charge generation rates

(A and B) Profile of the generation rate (G) in the PSCs (A) without and (B) with flower-replicated AR nanocoating. The maximum values of the color bars are both 4.5 × 10^{28} photons/m^3/s, with red indicating a high generation rate, and blue showing a low generation rate.

point [MPP] tracking; Figure S9). Notably, the optimized device also presented negligible hysteresis (Figure S9). The high efficiency of the flower cells was also reproducible (Figure S10). The photocurrent enhancement is reflected in the EQE curves (Figure 3C); a clear increase at wavelengths below 500 nm and over 700 nm, in agreement with the calculated absorption enhancement (Figure 2F), can be obtained by subtracting the EQE spectra of flower and control cells. This improvement is in agreement with the enhanced photocurrent in a wide range of light incident angles (Figure 3D) and the increased charge-carrier generation rate by nearly one order of magnitude in the flower compared with the control device (Figure 4).

However, this improvement cannot be explained only by the suppression in specular reflection at normal incidence through applying the photonic structure on the glass front side (a decrease in the specular reflectance of about 4% was manifested). Even if we assume perfect light in-coupling properties, the maximum enhancement of 4% in specular reflectance is lower than the 6% enhancement in PCE. Consequently, an additional optical effect that also enhances light harvesting should be sought. To unravel a potential second optical effect of flower replica, we performed additional transmission measurements by illuminating the flower replica/glass sample from the back side (Figure S11). By comparing the transmittance measured by illuminating the front (Figure S3B) and back (Figure S11) sides, we can conclude that the flower structure also presents retro-reflection properties (that is, back reflection at the glass/flower interface; Figure S12).[52] As a result, some light rays that are transmitted through the flower replica/glass interface toward the PSC but they are reflected at the planar interface of glass with the solar cell will be retro-reflected (back reflected) at the glass/flower interface toward the solar cell again.

The flower replica also enabled excellent stability upon continuous illumination in nitrogen (Figure 5A. It is observed that the cell embedding the replica was very stable upon AM 1.5 G illumination for 1,000 h in nitrogen without any encapsulation. However, the control cell bearing the plain resin coating was also quite stable, indicating that the high device stability originates from the resin itself (probably from its high absorption in the UV part of the spectrum). Besides the study in nitrogen, the device's self-cleaning properties were also investigated (Figures 5B and 5C). After being covered with a sufficient amount of dust, control and flower cells were rinsed with actual rain drops. Flower-based PSC nearly recovered its initial photocurrent

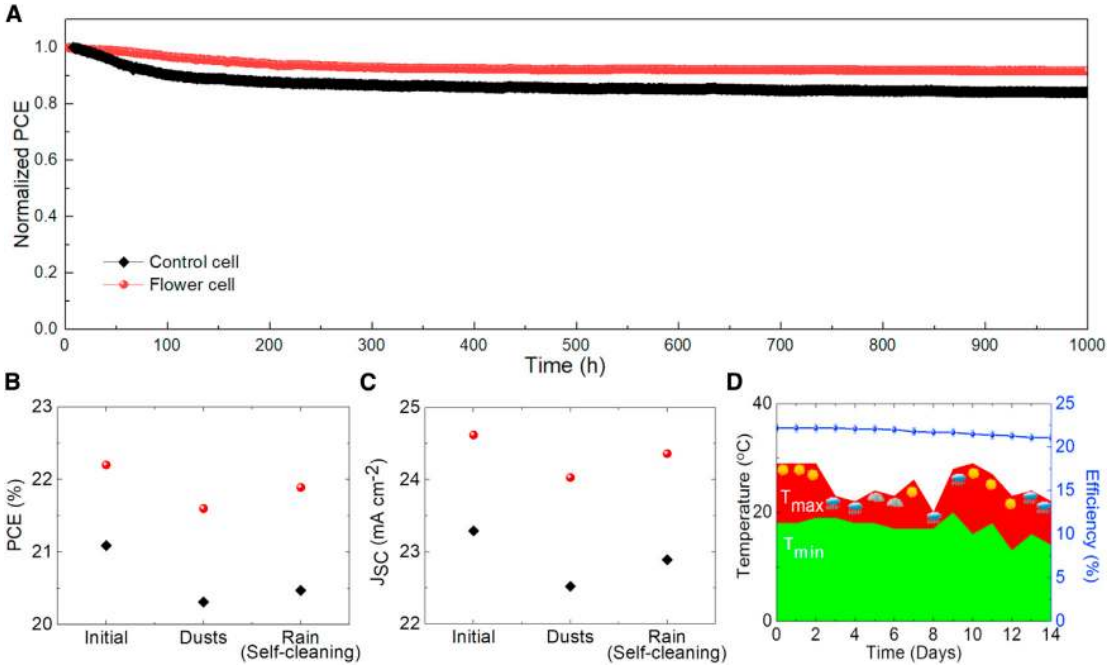


Figure 5. Device stability tests

(A) Stability study shown as *in situ*-measured PCEs of unencapsulated PSC devices over 1,000 h under a nitrogen atmosphere.

(B and C) Variation of PCE (B) and variation of J_{SC} (C) values of the flower replica or resin-coated solar cells to show the self-cleaning effect of the coatings. The devices were fully covered by yellow powder-like dust. Then, the cleaning procedure was done by spraying with plenty of water.

(D) Results of the aging test in real-world conditions (tested under short-circuit conditions). The devices were left on the terrace of the Department of Information Display building in Seoul (South Korea) for 14 days, thus experiencing real outdoor operating conditions. PCE was measured once a day.

(24.37 from 24.62 mA cm^{-2}, which corresponds to a 1% reduction), while the control device exhibited a 3% drop in J_{SC} (22.56 from 23.29 mA cm^{-2}). As a result, the control cell undergoes sufficient reduction (20.40% from 21.01%), whereas the flower cell maintains its high efficiency (21.91% from 22.20%) owing to the excellent self-cleaning property of the nanostructured coating compared with the plain film consisting of the same resin (Figure S13). Given also the ultra hydrophobic effect of the textured flower coating, we further applied it as an encapsulate buffer on both sides of the cells and performed an aging study to verify the stability of PSCs under real-world conditions. The devices were placed on the terrace of the Department of Information Display building (37.60°N, 127°E) in Seoul (Figure S14) and subjected to temperature variations, pollution, and precipitation phenomena in a highly humid tropical climate zone. The flower-coated PSCs exhibited good stability (Figure 5D), retaining more than 95% of their initial PCE efficiency after this aging test by keeping the front electrode clean and acting as a moisture and UV light barrier, thus protecting the perovskite absorber from degradation.[52,53] Notably, the flower photonic structure was found to be very robust when exposed to real-world conditions for 6 months (Figure S15).

Despite the success of *A. majus* replica as AR nanocoating, these PSCs still have relatively moderate efficiencies compared with the recently achieved 25.8% in single-junction devices using pseudo-halide anion engineering.[54,55] We investigated the effect of the refractive index (RI) value of the UV-curing adhesive used for the fabrication of coatings. DYM 6–621 (from DYMAX) is an acrylate urethane with an RI between 1.575 and 1.615.[56] This value is expected to be increased by 1%–4%

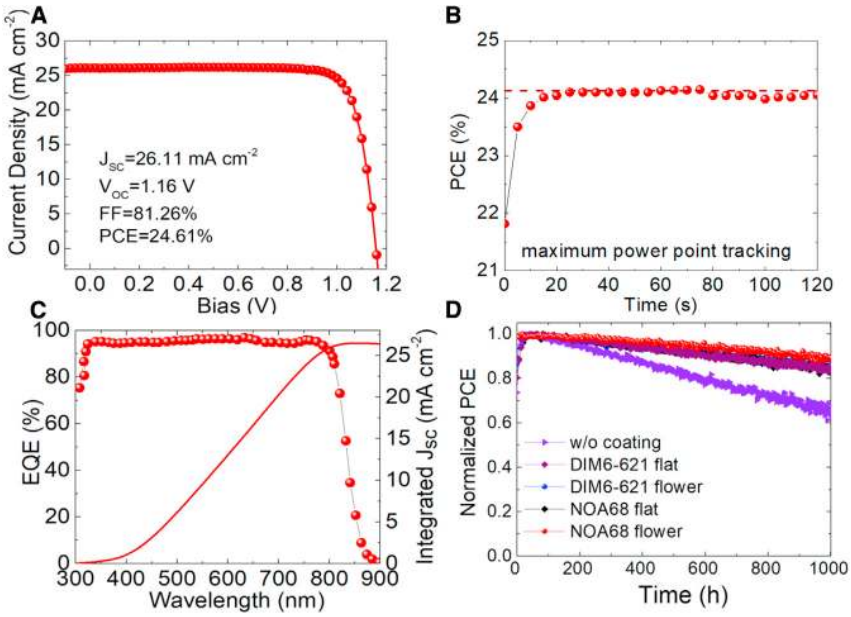


Figure 6. Photovoltaic characterization of the best-performing devices

(A) J-V for a highly efficient PSC with an *A. majus* replica made from optical adhesive NOA68.

(B) Variation of PCE versus time with the device biased at the MPP tracking. A stabilized PCE of 24.13% is obtained.

(C) EQE curves and integrated photocurrents of the same PSCs.

(D) UV degradation study. Variation of PCE versus continuous 254 nm UV irradiation with an intensity of 30 mW cm^{-2} at room temperature in a nitrogen-filled glovebox of PSCs based on flower and flat coatings and of a reference cell without any coating.

when the oligomer is UV cured (Figure S16A). We tested a different UV-curing adhesive, namely NOA68, from Norland Products. According to the supplier, this material exhibits a low RI of 1.54 (very close to that of common glass) when it becomes a UV-cured polymer. This was also verified by our measurements. When we replicated *A. majus* on NOA68 and used it on the front glass side as an AR coating, the PCE of the device was increased to 24.61% (24.13% stabilized) (Figures 6A and 6B). The device also presented negligible hysteresis (Table S2; Figure S17). The high increase in PCE resulted from an additional ~6% enhancement in J_{SC} (from 24.62 to 26.11 mA cm^{-2}). The EQE curve shows high values approaching 100% in most of the wavelengths of the visible spectrum (Figure 6C). The integration between the AM 1.5G photon flux with the incident PCE (IPCE) spectrum delivers a calculated photocurrent of 26.25 mA cm^{-2} (which is close to that measured experimentally, J_{SC} = 26.11 mA cm^{-2}). This additional enhancement in photocurrent, besides the suppression of specular reflectance at the conical structures and effective Rayleigh scattering caused by the sub-wavelength nanofeatures, also stems from the close matching of the RI between NOA68 and glass substrate, which eliminates the back reflectance of rays reaching the respective interface and ensures transition of light rays into the glass substrate (Figure S16B). In addition to the J_{SC} enhancement, a small improvement in V_{OC} value (from 1.13 to 1.16 V) is obtained, which can be explained by the photodiode equation:

$$V_{OC} = (kT/q)\ \ln[(J_{SC}/J_0) + 1], \qquad \text{(Equation 6)}$$

where k is the Boltzmann constant, T is the absolute temperature, q is the elementary charge, and J_0 is the device reverse current.[57] In addition, we observe an improvement

in the FF value in the champion cell, which is also related to the enhanced V_{OC} through the empirical formula proposed by M.A. Green:[58]

$$FF = \upsilon_{OC} - (\ln \upsilon_{OC} + 0.72) / (\upsilon_{OC} + 1), \quad \text{(Equation 7)}$$

where $\upsilon_{OC} = (q/kT)\, V_{OC}$, is defined as "normalized V_{OC}."

Because NOA68 (but also DIM6-621) strongly absorbs UV light with wavelengths below 350–380 nm (as indicated by the increase in their extinction coefficients in Figure S16B), we performed a UV degradation study of PSCs using plain resins and flower replicas formed by both DIM6-621 and NOA68. We compared these devices with PSCs embedding no coating. The devices were illuminated with 254 nm light inside a nitrogen-filled glove box for 1,000 h. From Figure 6D, it becomes evident that all the devices using plain or flower coatings exhibit sufficient resistance to UV degradation. On the contrary, the reference cell without any coating presented a moderate decline in efficiency; an indication that the coatings also acted as UV-protected buffers for the PSCs due to their high absorption at the wavelength range of interest. However, their UV or visible light protection property is not strictly related to nanotexturing.

In conclusion, we present a facile approach to fabricate multifunctional textured coatings by mimicking the adaxial epidermis of floral petals. We show that coatings consisting of hierarchical conical structures decorated with small nanofeatures at their peripheries combine omnidirectional antireflection, excellent water repellence, and moisture/UV light barrier functionality. Applying these coatings to PSCs enables enhanced efficiencies of over 24% through improved light trapping and an increase in photocurrent. They also endow the device with resistance to degradation caused by continuous illumination, environmental moisture, and UV light. Our work identifies that mimicking the functions of adaxial epidermal cells of flower petals and combining them with appropriate artificial materials to engineer novel nanocoatings could become a synergy with great potential.

EXPERIMENTAL PROCEDURES

Resource availability

Lead contact

Further information and requests should be directed to and will be fulfilled by the lead contact, Maria Vasilopoulou (m.vasilopoulou@inn.demokritos.gr).

Materials availability

All materials generated in this study are available from the lead contact without restriction.

Data and code availability

The published article and its supplemental information include all data generated or analyzed during this study.

Materials

The organic cations for the preparation of perovskite precursor solutions were purchased from Dyesol, the lead compounds from TCI, and CsI from abcr GmbH. Monolayer graphene was purchased from Graphene Supermarket. (2,2′,7,7′-Tetrakis[N,N-di(4-methoxyphenyl)amino]-9,9′-spirobifluorene) (Spiro-OMeTAD) was purchased from Merck; bis(trifluoromethylsulfonyl)imide lithium salt (Li-TFSI) and 4-*tert*-butylpyridine (TBP) were purchased from Sigma-Aldrich; tris(2-(1H-pyrazol-1-yl)-4-*tert*-butylpyridine)-cobalt(III) tris(bis(trifluoromethyl sulfonyl)imide) (FK209) was obtained from Dynamo. UV-curing

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adhesive DYM 6–621 was purchased from Dymax. UV-curing adhesive Norland Optical Adhesive NOA68 was obtained from Norland Products.

Replication of flower petal adaxial epidermal cells

Fresh petals were collected from Jardim Botanico Curitiba, Brazil. In particular, petals of wild-type (not mutations, where any) *R. repens*, *A. officinalis*, *A. deltoidea*, *G. endressii*, and *A. majus* were selected for an initial assessment. Healthy petals were carefully chosen, rinsed with water to remove adhering particles, and cut into 3 × 3 cm samples for replication. A poly(dimethyl siloxane) (PDMS) curing kit (Sylgard 184 silicone kit, Essex Group) dissolved in hexane was used to form a 0.05 g/mL PDMS solution. Ten μL PDMS solution was poured over the petal and quickly spread by capillary forces. Afterwards, solvent evaporation took place by curing the samples at 60°C for 4 h. To easily detach the PDMS slab from the petal, we sprayed it with chloroform, which caused swelling. The removed PDMS was allowed to dry at room temperature for 2 h to return to its normal state. A negative flower replica was thus obtained. The chosen petal nanostructure was next replicated by dropping 100 μL of a commercially available photoresin (either Dymax UV-light curing adhesive, DYM 6–621 or NOA68, Norland Products) onto the substrate. The photocurable photoresists were in a liquid phase and required no primer when poured onto the PDMS slab. They were subjected to a broadband exposure with a mercury (Hg) lamp (approximate dose >1 J cm^{-2}) while also being pressed on the PDMS slab from the center outward to remove access to oxygen and prevent oxygen inhibition during the 5 min of the curing process. Finally, the PDMS slab was slowly detached from the cured resin. The best results were accomplished at temperatures of 20°C–25°C and relative humidity of 40%–46%.

Device fabrication and characterization

Details for the device fabrication and measurements are given in the supplemental experimental procedures.

Thin-film measurements

SEM was performed on a ZEISS Merlin for Materials. The wettability of the petals was measured using static contact angle (CA) measurements (Dataphysics SCA 2.02, Filderstadt, Germany) taken by dropping 5 μL of de-mineralized water on the samples. The CAs were evaluated automatically using the Laplace-Young fitting algorithm. The specular reflectivity for varying angles of incidence was measured in a double-rotation stage (Huber), in which the sample was mounted in the inner stage and a power meter (Thorlabs, PM300) on the outer stage. An argon-krypton laser source and a ColorPol VIS500 linear polarizer (10 mW on the sample) were used at 514 nm wavelength. The beam spot size on the sample was 1 mm in diameter.

FDTD simulation

The finite-difference time-domain (FDTD) simulation was conducted with the Lumerical FDTD software package using plane waves with 300–800 nm wavelengths. The power absorption was calculated through the equation

$$P_{abs} = -0.5\omega|E|^2 imag(\varepsilon). \quad \text{(Equation 8)}$$

P_{abs} refers to the absorbed power per unit volume, ω to the angular frequency, E to the electrical field, and $imag(\varepsilon)$ is the imaginary part of the dielectric permittivity.

SUPPLEMENTAL INFORMATION

Supplemental information can be found online at https://doi.org/10.1016/j.xcrp.2022.101019.

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AUTHOR CONTRIBUTIONS

M.V., W.J.d.S., A.S., H.P.K., B.S.K., Y.R., A.E.X.G., J.C., F.K.S., L.C.P., D.D., P.A., T.S., and A.F. performed the device experiments. M.F. selected and provided flower petals and relevant experiments. M.V., W.J.d.S., J.J., N.G., M.K.N., Y.-Y.N., and A.R.b.M.Y. conceived the idea and supervised the experiments. M.V., N.G., A.F., and A.R.b.M.Y. wrote the paper with contributions from all authors.

DECLARATION OF INTERESTS

The authors declare no competing interests.

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High efficiency blue organic light-emitting diodes with below-bandgap electroluminescence

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Blue organic light-emitting diodes require high triplet interlayer materials, which induce large energetic barriers at the interfaces resulting in high device voltages and reduced efficiencies. Here, we alleviate this issue by designing a low triplet energy hole transporting interlayer with high mobility, combined with an interface exciplex that confines excitons at the emissive layer/electron transporting material interface. As a result, blue thermally activated delay fluorescent organic light-emitting diodes with a below-bandgap turn-on voltage of 2.5 V and an external quantum efficiency (EQE) of 41.2% were successfully fabricated. These devices also showed suppressed efficiency roll-off maintaining an EQE of 34.8% at 1000 cd m^{-2}. Our approach paves the way for further progress through exploring alternative device engineering approaches instead of only focusing on the demanding synthesis of organic compounds with complex structures.

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Organic light-emitting diodes (OLEDs) with blue emission of high efficiency and operational stability are very important in solid-state lighting, information storage of high density, and vivid displays[1–5]. The low-efficiency issue of purely fluorescent devices was successfully addressed by the development of noble metal-based organometallic phosphors that enabled the fabrication of blue OLEDs with external quantum efficiencies (EQEs) exceeding 30%[6–9]. However, the high cost and limited reserve of noble metal phosphors have been the driving force for developing purely organic thermally activated delay fluorescent (TADF) emitters relying on radiative deactivation from singlet states with 100% quantum efficiency[10–13]. Through careful design and compositional engineering of such emitters[14–17], the EQEs of blue and sky-blue TADF OLEDs have been steadily improved from 19.5% in 2014[18] to 38.2% in 2019[19] and further to 38.4% in 2021[20], hence surpassing in performance the best blue phosphorescence OLEDs[9]. These devices to successfully confine both charges and excitons within the blue emitter, which is generally dispersed into an appropriate matrix to form the emissive layer (EML), require high lowest unoccupied molecular orbital (LUMO) and triplet energy (E_T) interlayers[21]. As a result, large energetic barriers are present at the interfaces resulting in high device voltages, reduced efficiencies, and high efficiency roll-off due to the carrier accumulation at these interfaces.

In a standard OLED architecture, the electrical carrier injection takes place via the highest occupied molecular orbital (HOMO) and the LUMO of the hole injection layer (HIL) and electron injection interlayer (EIL) injection interlayer, respectively. To reduce the charge injection barriers, it is necessary to adjust the energy levels of the HIL/EIL with the work function (W_F) of the respective electrode. However, to confine excitons (both singlet and triplet) within the blue EML, interlayer materials with high singlet energy and E_T (commonly above 3.0 eV[22]) are necessary. These requirements are met in blue OLEDs by fabricating multilayer stacks, including separate charge injection, transporting, and exciton-confining interlayers. These stacks include several interfaces where charges and excitons are accumulated, deteriorating the device performance and causing a drop of EQE in high current densities (J) known as efficiency roll-off[23–25]. One way to prevent these parasitic effects is, therefore, the design and fabrication of simplified structures[26–28].

Here we apply a device-engineering approach that allowed us to demonstrate blue TADF OLEDs with high figure of merits, including below bandgap turn-on voltage of 2.5 V and the highest reported to date EQE for any blue OLED of 41.2%. The high OLED performance was made possible through the application of a low E_T (2.14 eV) hole transport material (HTM), rationally designed with a high hole mobility of 7.5×10^{-3} cm^2 (V s)$^{-1}$. This HTM served as a hole "reservoir" influencing both hole and electron carrier injection, and transport and subsequent exciton formation at the EML/electron transport material (ETM) interface. Effective exciton confinement due to the formation of an interface exciplex between the ambipolar host and the ETM prevents exciton diffusion towards the low E_T HTM, resulting in minimal energy loss, below-bandgap electroluminescence (EL), high efficiency, improved lifetime, and reduced efficiency roll-off.

Results

Materials and device conceptual design. Besides technical specifications, any developed material for OLED applications needs to be able to scale up to hundreds of kilograms, at an acceptable cost and environmental impact for real-world applications. Thiophene-quinoxaline (TQ) copolymers are considered very promising organic photovoltaic donor materials of low synthetic complexity and easy scale-up at multigram quantities[29]. In this work, we synthesized two fluorinated-TQ copolymers, abbreviated as T2fQ and TQ2f, containing two fluorine (F) atoms in thiophene and quinoxaline, respectively. The synthetic procedure is shown in Fig. 1a. The chemical structure of each copolymer is shown in the upper panel of Fig. 1b. The identity, purity,

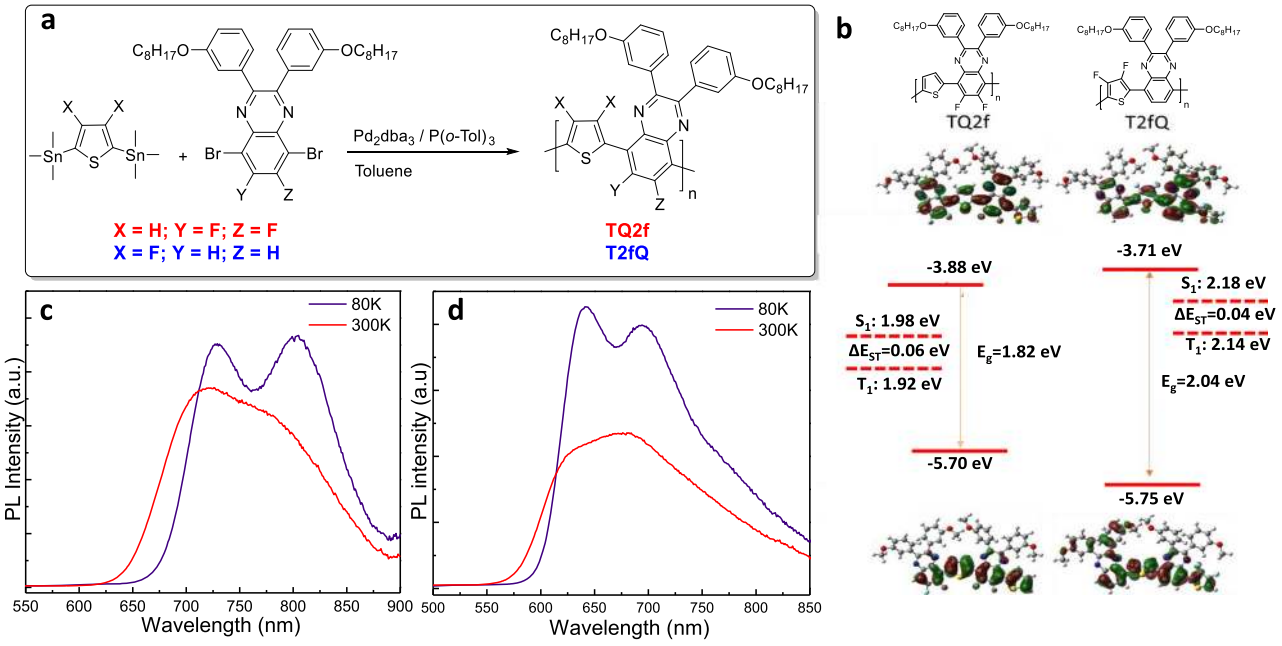


Fig. 1 Properties of the hole-transporting interlayers. a The synthetic procedure for the preparation of fluorinated TQs. **b** The chemical structures of TQ2f and T2fQ used as hole-transporting interlayers, the calculated frontier orbitals and energy levels as derived from cyclic voltammetry, and absorption measurements and the lower excited singlet and triplet levels of TQ2f and T2fQ. The room temperature (RT, 300 K) and low temperature (80 K) photoluminescence spectra of **c** TQ2f and **d** T2fQ thin films.

molecular weight, and optoelectronic properties of both compounds were ascertained using ^{1}H and ^{13}C nuclear magnetic resonance (^{1}H-NMR and ^{13}C-NMR, respectively), gel permeation chromatography (GPC), absorption and emission spectroscopy, and cyclic voltammetry during oxidation (Supplementary Figs. 1–4 and Supplementary Tables 1 and 2). The latter enabled the estimation of the fluorinated TQ's HOMO, whereas absorption measurements defined the optical bandgap value of each copolymer. The calculated frontier orbitals and the corresponding energy levels (Supplementary Note 1) are presented in Fig. 1b. The replacement of the F atoms from the quinoxaline to the thiophene has significant effect on the energy levels along with the dihedral angle between the two adjustments building blocks (Supplementary Fig. 5). This is expected to largely affect the intramolecular charge transfer and molecular packing, and, consequently, the carrier mobility of these copolymers in the solid state[30–32]. Photoluminescence (PL) spectra and transient PL (TRPL) decay curves measured either in ambient at a wide temperature range from 80 K to room temperature (300 K, RT) (Fig. 1c, d and Supplementary Figs. 6 and 7) or in oxygen/nitrogen environments (at RT) (Supplementary Figs. 8 and 9) enabled the estimation of the lowest excited singlet (S_1) and triplet (T_1) states (Fig. 1b), while also indicating that these HTMs are RT phosphorescence materials. From the energy levels point of view, these materials are far from being ideal interlayers for direct contact with the EML, where requirements for high LUMO and high E_T to avoid electron leakage and prevent exciton quenching are very strict.

Contrarily to conventional OLED architectures where excitons are directly formed in the emitter, OLEDs using donor : acceptor (D : A) species interacting in the excited state, the so-called exciplexes, have gained much attention after the pioneering work of Adachi and colleagues[17,33]. Analogously to TADF emitters, exciplexes display an innately small energy separation (ΔE_{ST}) between their charge-transfer excited states (these are either singlet, ^{1}CT, or triplet, ^{3}CT, in character), indicating a feasible way toward theoretical 100% exciton harvesting[17], when applied either as hosts or as emitters[33]. As an alternative strategy, the use of interface exciplexes to strongly localize excitons and improve OLED efficiency has also been reported[22], albeit there are stringent requirements that should be fulfilled for optimum device performance, especially for blue OLEDs[34]. In particular, ^{1}CT/^{3}CT states have to be lower than the local excitation energies (^{1}LE/^{3}LE) of both donor and acceptor constituents for the successful confinement of all excitons within the exciplex. At the same time, ^{1}CT/^{3}CT states must be higher than the emitter's LE states in order to succeed efficient energy transfer towards the latter at RT and avoid back-electron transfer towards the donor or acceptor constituents. In blue OLEDs, in particular interface exciplexes with high ^{1}CT/^{3}CT states lying above those of the blue emitters (~3.0 eV[9]) are required, which necessitates the selection of large bandgap donor and acceptor constituents. We rationally selected an ambipolar host, namely bis(diphenylphosphine oxide)dibenzofuran (DBFPO)[35] (Supplementary Note 2 and Supplementary Figs. 10–12), which served as the donor constituent combined with an ETM, namely diphenyl[4-(triphenylsilyl)phenyl]phosphine oxide (TSPO1)[36], to serve as the acceptor constituent of the interface exciplex. DBFPO bears diplenylphosphine oxide acceptor and dibenzofuran donor groups; TSPO1 consists of triplenyl silyl and triphenyl oxide acceptor groups. The multiple π–σ interactions through C-Si direct coupling substantially lower its HOMO energy, rendering this compound an excellent conventional acceptor[37].

We investigated the possible exciplex formation between TSPO1 and DBFPO constituents by monitoring the absorption and emission spectra of the monomers in solution and of pristine and mixed films. Supplementary Fig. 13 presents the absorption and emission spectra of TSPO1 and DBFPO monomers in dilute solution (5×10^{-7} M) and films. The PL spectrum of DBFPO film exhibits a red-shifted broad shoulder, which is attributed to excimer emission (in accordance to ref. [35]). By subtracting the PL spectrum of the monomer, we found that this emission is centered at 361 nm, which is in well agreement with previous reports[35]. We next investigated the absorption and emission properties of mixed (in molecular ratio of 10:1, 1:1, and 1:10) TSPO1 and DBFPO films. As depicted in Supplementary Fig. 14, their absorption spectra derive from the superposition of the constituents, which indicates that these materials do not interact in the ground state. Differently, the PL spectra of the mixed films exhibit strict differences; we note that these spectra were taken using a 330 nm short-pass filter to cut most of the ultraviolet (UV) emission of the pristine materials and focus on the longer wavelengths where exciplex formation—if any—is expected. In the spectra taken in ambient conditions at RT (Fig. 2a), in addition to the contribution of the monomers and DBFPO's excimer emission, which appears as a shoulder at ~361 nm in the 1:1 ratio and mostly in the 1:10 film with the higher DBFPO content, a new distinct peak appears at longer wavelengths (centered at 440–450 nm). This peak exhibits higher intensity in the spectrum of 1:1 mixed film, where larger interaction between the two constituents is expected. Notably, this peak becomes even more pronounced in the spectra taken in nitrogen (Fig. 2b) and at low temperatures (Fig. 2c). The Gaussian peak deconvolution (Supplementary Fig. 15) revealed that the PL spectrum of the 1:1 mixed film can be considered as the superposition of narrow peaks derived from the monomers, one broad peak centered at 370 nm, which is related to the DBFPO's excimer, and one broad peak centered at 440 nm. The latter is due to excited state interaction between TSPO1 and DBFPO, and can be attributed to exciplex formation between the constituents. This is in agreement with the higher intensity of this peak observed in the 1:1 film compared to the 1:10 and 10:1 films in air, as well as the increased intensity of the peak in nitrogen and at low temperature in the 1:1 mixture. The broad peak at ~440 nm is therefore attributed to charge-transfer emission from the complex excited dimer.

The PL studies of pristine compounds and mixed films revealed the exciplex formation between the two constituents. The higher energy peak in the PL spectrum of the mixed films is the remaining emission of the constituents due to incomplete energy transfer between them due to low energy difference (ΔE) between their LUMOs (0.2 eV, Fig. 2d). A $\Delta E > 0.5$ eV is needed to allow 100% charge transfer between the consituents[38]. However, even in this case the formation of an interface exciplex might be beneficial for the OLED operation, as it is expected to confine excitons within the EML/ETM interface. These excitons can then be transferred to the emitter's molecules instead of being diffused towards the HTM/EML interface where excitons are probably quenched. Our studies excluded the possibility that the PL broadening in the 1:1 mixed film is due to different orientation/conformation of the constituent molecules in the mixed film. Supplementary Fig. 16 and Fig. 2c present the evolution of PL spectra of TSPO1 and DBFPO pristine and their mixtures films upon increasing temperature. In pristine TSPO1 and TSPO1:DBFPO 10:1 films, the phosphorescence of the ETM is clearly observed at low temperature in the wavelength range of interest (around 400–550 nm). Upon heating to reach RT, TSPO1 exhibits no distinct emission, whereas the 10:1 film presents a small but distinct shoulder at 440 nm. Differently, the DBFPO and 1:10 films present a broad red-shifted shoulder (reaching up to 600 nm) in both films, especially in pristine DBFPO. This could be due to molecular rearrangement upon heating or the induction of photochemical processes from continuous

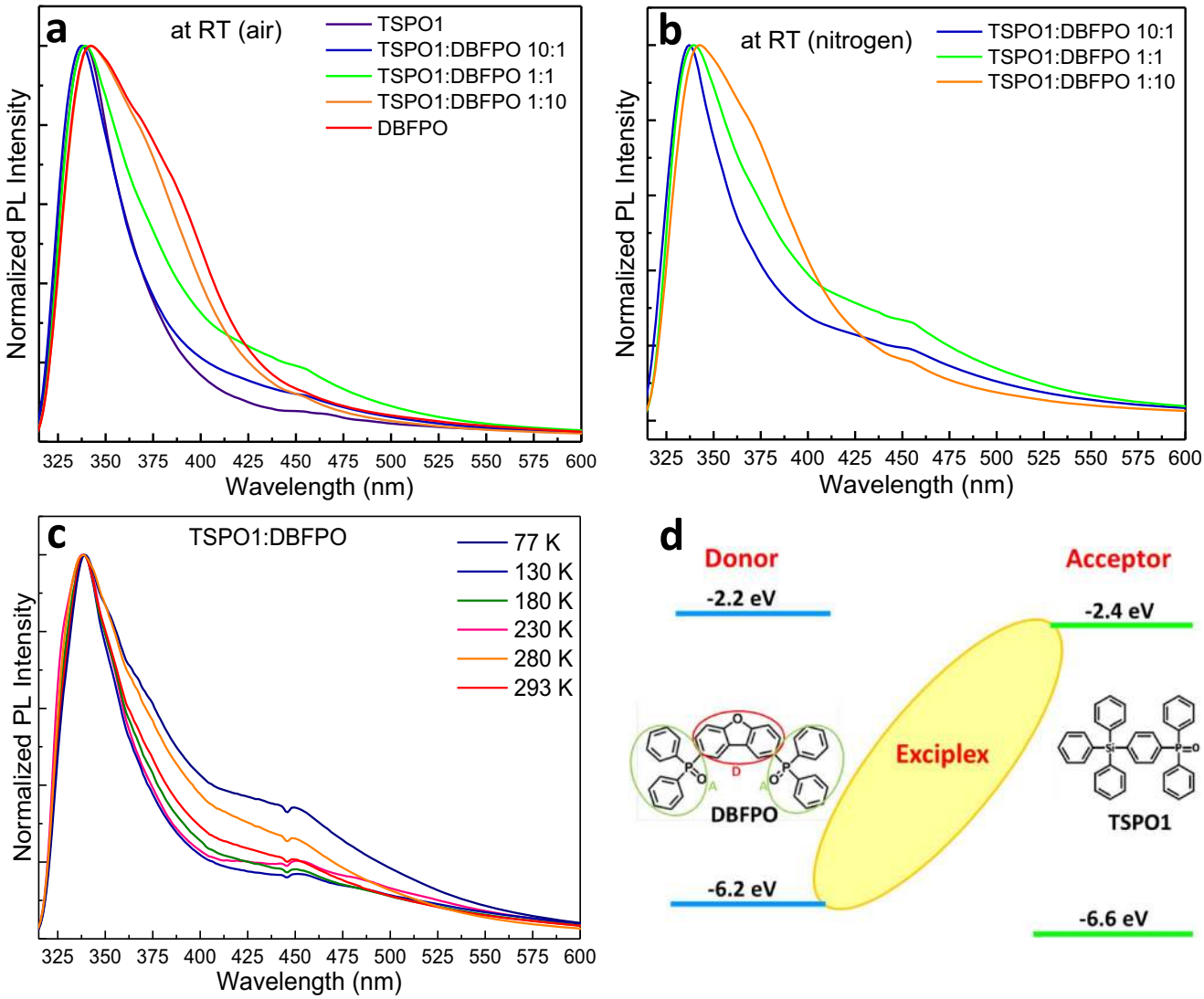


Fig. 2 Illustration of the interface exciplex formation. **a** Room temperature (RT) normalized PL spectra of TSPO1 and DBFPO pristine films and mixtures. **b** The PL spectra of mixtures taken at RT in nitrogen. **c** Temperature-dependent PL spectra of TSPO1:DBFPO 1:1 mixed film. **d** The chemical structures and frontier orbitals of DBFPO and TSPO1, and the illustration of interfacial exciplex formation.

excitation. A similar behavior was previously observed for DBFPO upon UV exposure in air[35], which was also verified by our experiments (Supplementary Fig. 17a). This can be attributed to significant molecular rearrangement of this material upon heating/exposure and/or due to photochemical processes[35]. Contrarily to pristine DBFPO, negligible change was observed in the TSPO1:DBFPO 1:1 upon UV irradiation (Supplementary Fig. 17b), which represents a clear indication of strong molecular interactions between the excited states of the constituents in the mixed film. This supports the exciplex formation between different molecules rather than the interactions/rearrangements of similar molecules.

Peformances of blue TADF OLEDs. To test our conceptual device-engineering approach, we next fabricated blue OLEDs based on the 5-(2,12-di-tert-butyl-5,9-dioxa-13b-boranaphtho [3,2,1-de]anthracen-7-yl)-10,15-diphenyl-10,15-dihydro-5H-diindolo[3,2-a:3′,2′-c]carbazole (TDBA-DI) TADF emitter that previously enabled the fabrication of blue OLEDs with an EQE of 38.2%[19]. Our devices consisted of the following: indium tin oxide (ITO) anode, N,N′-Di(1-naphthyl)-N,N′-diphenyl-(1,1′-biphenyl)-4, 4′-diamine (α-NPD) hole injection layer (HIL), fluorinated TQ or 3,5-di(9H-carbazol-9-yl)-N,N-diphenylaniline (DCDPA) HTM[19], 20% TDBA-DI doped in DBFPO host, TSPO1 ETM, and LiF/Al cathode. All device layers were vacuum evaporated, except for TQ derivatives, which were processed from tetrahydrofuran (THF) solution in order not to dissolve the NPD underneath. The solution concentration and processing conditions were optimized to obtain smooth films and maximum device performance (Supplementary Fig. 18). Figure 3a presents the frontier orbitals of organic materials and W_F values of metal contacts, considering energy vacuum level alignment before contact. It indicates that TQs are inappropriate for use as HTM in direct contact with the EML, as they could facilitate electron leakage and exciton quenching at the HTM/EML interface. Despite the negative prevision, the T2fQ device exhibited blue emission with color coordinates of (0.15, 0.28) (Fig. 3b), peak EL at 458 nm (Fig. 3c), and ultra-low turn-on voltage of 2.5 V (Fig. 3d), a current efficiency of 72.2 cd A^{-1}, and a power efficiency (PE) of 87.2 lm W^{-1} (Fig. 3e and Table 1). The EL spectrum was identical with the PL one (Supplementary Fig. 19a), which suggests that T2fQ and DBFPO:TSPO1 interface exciplex have no contribution to the emitted wavelengths. The low device turn-on voltage corresponds to below-bandgap EL. The origin of

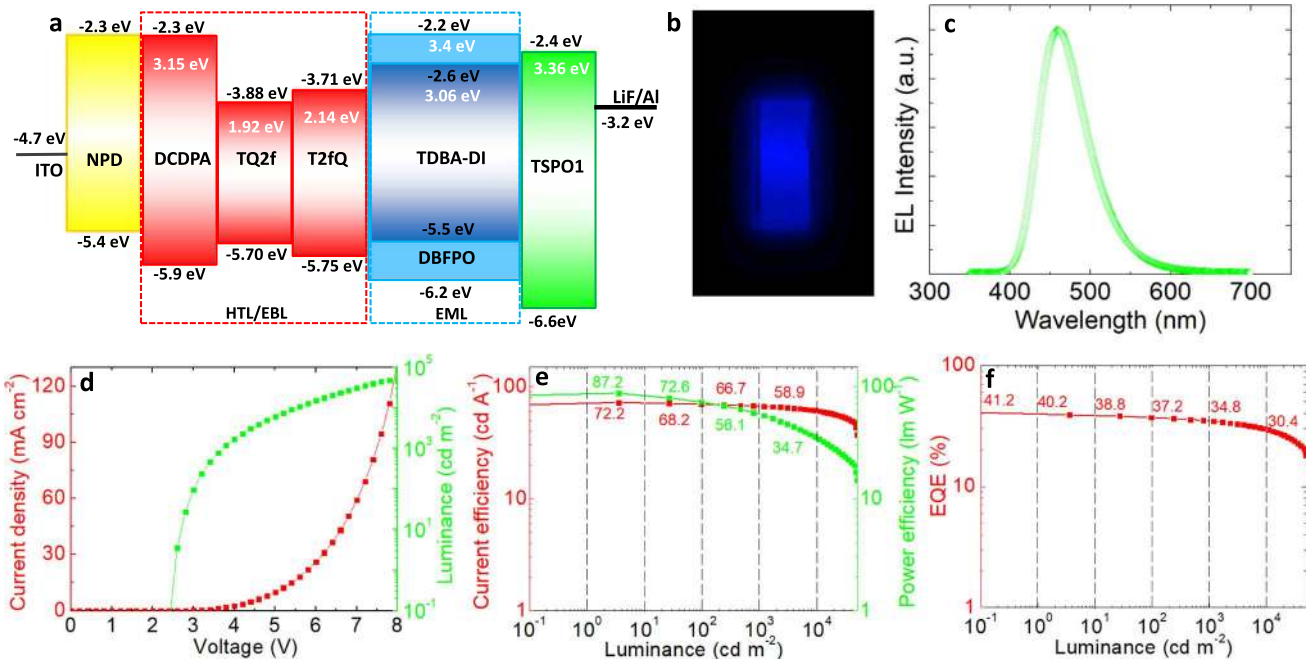


Fig. 3 Performance of optimized blue TADF OLEDs and efficiency roll-off. a The energy-level diagram of the layers sequence in the blue TADF OLED device architecture considering vacuum level alignment before contact. Besides HOMO and LUMO energies of organic layers, the triplet energy of the emitter, host, and interlayer materials are also presented. **b** Photograph of a working OLED pixel with an active area of 25 mm^2 and **c** electroluminescence spectrum of the same device. **d** Current density–luminance–voltage characteristics, **e** current and power efficiency vs. luminance, and **f** EQE vs. luminance characteristics for the OLED.

Table 1 Summary of the performance characteristics of our best-performing blue OLEDs and comparison with the best-performing, to date, blue TADF OLEDs[19,20] and blue PHOLED[9].

HTM//ETM	EML/λ_{em} (nm)	Turn-on voltage (V)[a]	FWHM (nm)[b]	Maximum luminance (cd m^{-2})	Maximum efficiency			CIE 1931 (x, y)[c]	Ref.
					CE (cd A^{-1})	PE (lm W^{-1})	EQE (%)		
DCDPA//TSPO1	DBFPO : TDBA-DI/458	2.5	65	37590	68.0 (48.0)	82.1 (26.3)	37.8 (29.0)	(0.15, 0.28)	This work
T2fQ//TSPO1	DBFPO : TDBA-DI/458	2.5	65	49530	72.2 (61.7)	87.2 (36.8)	41.2 (34.6)	(0.15, 0.28)	This work
DCDPA// DBFPO/TPBi	DBFPO : TDBA-DI/458	3.1	65	47680	64.4 (57.0)	57.2 (33.0)	38.2 (34.3)	(0.15, 0.28)	Ref. [19]
mCP//DPEPO	DspiroS-TRZ/480	2.9	70	18446	90	101	38.4	(0.176, 0.374)	Ref. [20]
[d]mCP//TmPyPB	CbBPCb : FIrpic/473	–	75	7000	53.6	50.6	30	–	Ref. [9]

CE current efficiency, *PE* power efficiency.
[a]Turn-on voltage at 1 cd m^{-2}.
[b]FWHM at 10 mA cm^{-2}.
[c]CIE 1931 coordinates.
[d]Best phosphorescence OLED.

such emission has been previously attributed to CT excitons present at the EML/ETM interface under sub-bandgap driving conditions[39]. The interface exciplex having CT states lying well below the emitter's LE states (the 440 nm peak emission of the interface exciplex corresponds to CT energy of 2.8 nm, which is below the emitter's LUMO, Fig. 3a), could contribute to the below-bandgap EL and explain the low turn-on voltage. Moreover, our device achieved a world record EQE of 41.2% (Fig. 3f), with a mean EQE of 34.6% (Supplementary Fig. 19b). Remarkably, a very low-efficiency roll-off of 8.6% at 1000 cd m^{-2} and 21.6% at 5000 cd m^{-2} was also obtained. Notably, the performance of the reference devices using the high-energy LUMO/high E_T DCDPA was slightly inferior to that of the T2fQ OLEDs (Supplementary Fig. 20). These devices achieved an EQE of 37.6%, which is very close to the efficiency of 38.2% exhibited by the previously reported OLEDs using DCDBA/TDBA-DI:DBFPO interfaces (Table 1)[19]. Notably, they still exhibited a below-bandgap turn-on voltage of 2.5 V (compared to 3.1 V of ref. [19]), resulting in a higher PE of 82.1 lm W^{-1} (compared to 57.2 lm W^{-1} of ref. [19]). However, the device using TQ2f was far inferior with an EQE hardly reaching 11.75% (Supplementary Fig. 21), an indication that the mobility of the HTM plays a crucial role in the device performance.

To shed light to OLED performance, we next tried to determine the emitting dipole orientation within the EML of the champion OLEDs by performing angle-resolved PL

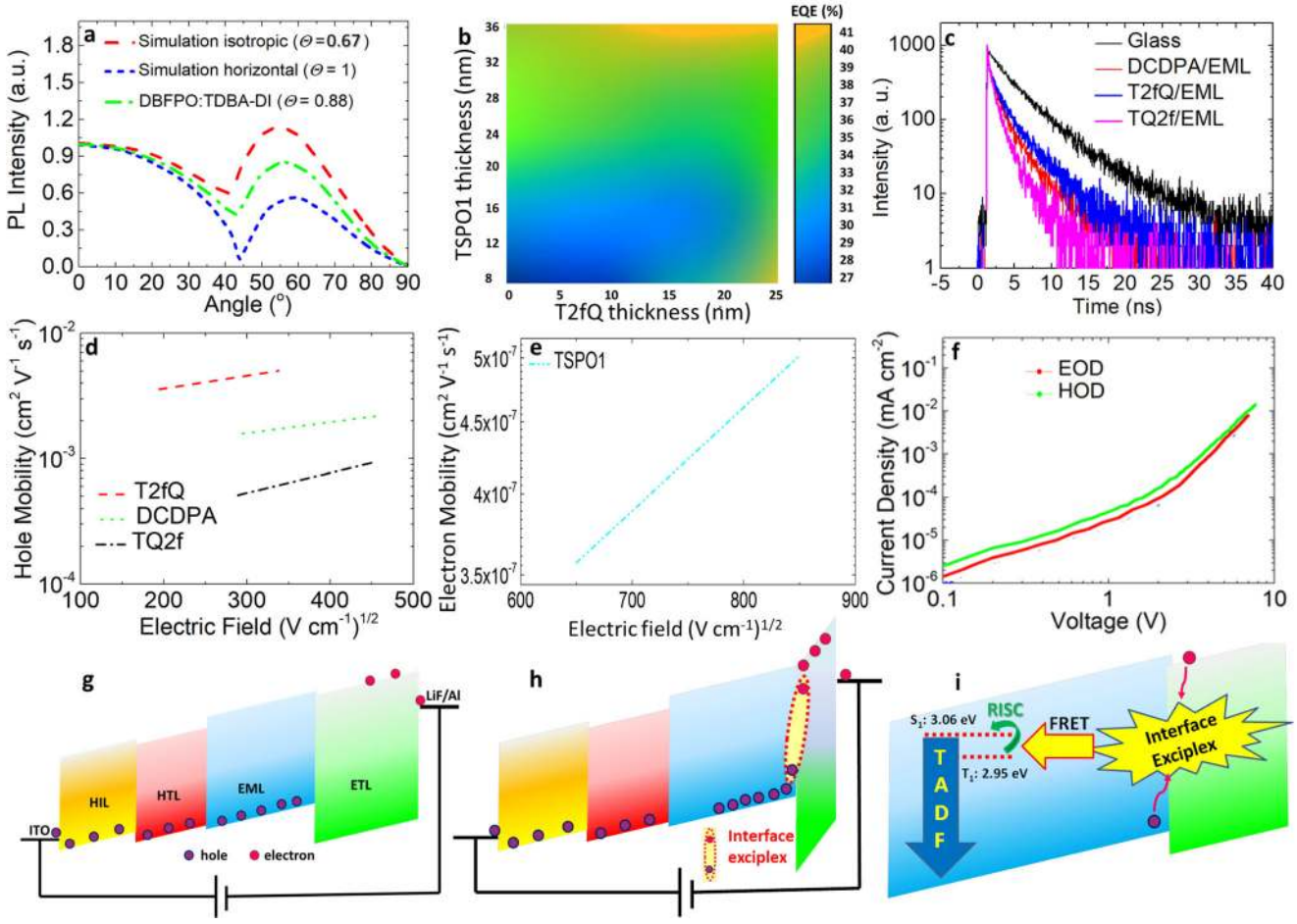


Fig. 4 Proposed operation mechanism. a Dependence of polarized PL intensity on the emission angle and **b** simulations for the thickness optimization of TSPO1 and T2fQ ETM and HTM. **c** TRPL decay curves of the EML on glass, DCPPA, T2fQ, and TQ2f films. **d** Variation of hole mobility vs. the applied field for the three different HTMs used in this study. **e** Variation of electron mobility on the applied field of the TSPO1 ETM. **f** Current densities measured in hole-only (ITO/NPD/TQ2f/DBFPO 20%-TDBA-DI/NPD/Al) and electron-only (ITO/TSPO1/DBFPO 20%-TDBA-DI/TSPO1/LiF/Al) devices. Schematic response of an ITO/NPD/T2fQ/EML/ETL/LiF/Al device under forward applied bias. **g** The electric field (slope of the energy levels) is evenly distributed across the device. Holes and electrons are injected from the anode and cathode contact, respectively, and transported through the HTL and ETL towards the EML. Due to the large difference in hole and electron mobilities of the HTM and ETM, respectively, holes are reaching the EML before electrons are transported within the ETL. **h**, **i** Holes reaching and start building up at the EML/ETL interface screen the electric field to the ETL. The redistribution of the electric field into the ETL accelerates electron injection/transport and electrons reach the EML/ETL interface where they subsequently form interfacial exciplexes with holes in the DBFPO layer. Interface exciplex confines excitons and transfers them to the emitter.

measurements in a 30 nm film consisting of TDBA-DI 20%-doped in DBFPO. Figure 4a includes polarized PL measurements and optical simulations for isotropic oriented ($\Theta_{//} = 0.67$) and horizontally oriented ($\Theta_{//} = 1$) emitters. In general, horizontal emitting dipole ($\Theta_{//} = 1$) show stronger light emission at the front direction, hence improving outcoupling efficiency[40,41]. The results shown in Fig. 4a confirm that when the EML is deposited on T2fQ, the larger portion of the emitting dipoles is horizontally oriented ($\Theta_{//} = 0.88$). This is in good agreement with ref. [19], indicating that T2fQ underlayer preserves the same horizontal orientation of the emitting dipoles in EML as the previously applied DCDPA does. This result, however, cannot explain the best performance of the T2fQ-based devices compared to DCDPA ones, even though careful adjustment of HTM and ETM thicknesses enabled the achievement of the highest possible EQE (Fig. 4b). Aiming to reveal the origin of such remarkable device performance, we also measured the PL quantum yields in 20% doped TDBA-DI:DBFPO films deposited on DCDPA, TQ2f, and T2fQ layers; the corresponding values were quite close, in particular 0.88, 0.83 and 0.92, respectively. Furthermore, TRPL measurements were taken on the same TDBA-DI:DBFPO films deposited on the different HTMs and on glass substrate (Fig. 4c and Supplementary Table 3). The results indicated comparable degree of exciton confinement in both EML/T2fQ and EML/DCDPA bilayers. Hole and electron mobilities of the HTM and ETM interlayers were further estimated with time-of-flight (TOF) measurements (Fig. 4d, e). It is seen that fluorine substitution in thiophene (T2fQ) instead of quinoxaline (TQ2f) highly improves the hole mobility of T2fQ to nearly 7.5×10^{-3} cm^2 (V s)$^{-1}$, which is fivefold higher relative to that of DCDPA and one order of magnitude above that of TQ2f. The electron mobility measured for TSPO1 was nearly four orders of magnitude lower, in accordance to the results published by others[41]. As a result, highly unbalanced hole and electron currents are expected, which, however, is not the case for T2fQ-based devices where nearly identical electron and hole currents were obtained in electron-only and hole-only (HOD) devices, respectively (Fig. 4f). On the contrary, highly unbalanced hole/electron currents were measured in the T2fQ-based HODs (Supplementary Fig. 22), which normally deteriorates the device performance.

Based on our findings to explain the highly balanced transport and superior performance of T2fQ-based OLEDs, we propose a device operation mechanism that involves the following: (i) highly efficient hole transport through T2fQ upon the application of an external bias, (ii) effective blocking of holes by the deep HOMO of TSPO1, (iii) electric field redistribution across TSPO1 and acceleration of electron transport therein due to built-up of holes at the EML/TSPO1 interface, (iv) exciton formation at the EML/TSPO1 interface and confinement by the interface exciplex, and (v) exciton transfer to the emitter and emission of blue light. This concept is well supported by the obtained data and is illustrated in Fig. 4g–i, which shows the electric fields (in the term of energy bands bending) in an ITO/NPD/T2fQ/DBFPO:TDBA-DI/TSPO1/LiF/Al device upon the application of forward bias and the different steps of device mechanism proposed above. Exciton confinement by the interface exciplex prohibits their diffusion across the 30 nm-thick EML, where a high probability of reaching the low energy levels of T2fQ exists, especially for the triplet excitons having diffusion lengths in the range of 15–30 nm[42,43]. Upon the formation of an interface exciplex, even though the intermolecular charge transfer between donor: acceptor and acceptor constituents is not as high as 100%, effective Förster resonant energy transfer results in excitons being transferred to the blue emitter (Fig. 4i).

To further support interface exciplex formation, we fabricated OLEDs with low emitter concentration doping in the EML. These devices exhibited a pronounced blue shift in their EL emission upon decreasing the emitter concentration (Supplementary Fig. 23). This is due to the exciplex emission and indicates suppressed energy transfer towards the emitter at lower doping levels. To unambiguously demonstrate the interface exciplex originated high-performance enhancement in our OLEDs, we inserted a 10 nm-thick DBFPO to serve as a buffer layer between the EML and TSPO1. By decreasing the concentration doping of the TDBA-DI emitter in the DBFPO host, besides a moderate decrease in EL intensity, attributed to suppressed energy transfer from DBFPO host to the emitter, non-profound EL shift was evident. Moreover, a significant reduction in the device performance was obtained through increasing the DBFPO buffer layer thickness from 0 to 10 nm (Supplementary Table 4), clearly demonstrating the critical role of interface exciplex formed between DBFPO and TSPO1 constituents in the device performance. In addition, the exciplex emission is clearly seen in the EL spectra taken at 2.5 V compared to those taken at 3.0 V forward bias (Supplementary Fig. 24). This indicates that the below-bandgap EL is due to CT excitons from interface exciplex, in accordance with previous studies[39].

OLED lifetime measurements. Besides high efficiencies and low turn-on voltage, the operational lifetime of an OLED is crucial for practical applications. Significant improvement in half-lifetime (T50) (up to 14 h for initial luminance of 1000 cd m^{-2}) was obtained in our OLEDs, using not only T2fQ but also DCDPA and TQ2f interlayers, compared to the recently published OLEDs with the same emitter (i.e., 2 h)[19] (Fig. 5a and Supplementary Fig. 25), indicating decreased charge carrier accumulation at the DBFPO/TSPO1 interface, which would be the origin of severe degradation[44]. The formation of the interface exciplex, however, strongly confines and rapidly transfers excitons towards the emitter. The excited host molecule instability-induced degradation, which was recently proposed by Adachi and colleagues[44] as a major cause of emission loss in TADF OLEDs, is largely alleviated in our devices. Moreover, a minor change in the driving voltage was obtained even for a high luminance of 5000 cd m^{-2} (Fig. 5a), thus protecting our device from Joule heating and subsequent degradation[45]. The shape of the degraded EL spectra was in all cases similar to the initial ones (Fig. 5b and Supplementary Figs. 26 and 27), indicating that the degradation of those devices does not involve any changes in the recombination zone. This is in agreement with our proposed mechanism, which involves strong confinement of excitons within the DBFPO/TSPO1 interface and direct transfer towards the emitter[46]. Moreover, TOF secondary ion mass spectrometry (TOF-SIMS) measurements taken in the optimized OLED structures before and after degradation (Fig. 5c, d) revealed well-defined interfaces in the profiles, indicating strong resistance of the selected materials in degradation factors[47]. However, a large tail of the ITO profile extended within the whole device and a significant reduction of its intensity at the interface with NPD after degradation suggest that the primary degradation mechanism in these OLEDs derives through decomposition and diffusion of ITO electrode within the device, which has also been considered responsible for many types of OLED degradation[48,49].

Discussion

We fabricated blue TADF OLEDs using a low E_T HTM, a fluorinated TQ copolymer, which was designed with a high hole mobility of 7.5×10^{-3} cm^2 $(V\,s)^{-1}$. We combined this material with an interface exciplex formed between an ambipolar host and an ETM at the cathode device side. The HTM not only facilitated fast hole transfer towards the EML but also improved electron injection upon electric field redistribution within the low-mobility ETM. Interface exciplex strongly confined the generated excitons at the host/ETM interface, thus preventing leakage towards the exciton quenching HTM. These excitons were directly transferred to the blue emitter, thus suppressing charge and energy losses. Below-bandgap EL, highly improved efficiencies, suppressed efficiency roll-off and prolonged device lifetime were obtained, thus realizing the potential of using alternative interlayer materials and device architectures instead of well-designed emitters for further advancements in solution-processed LEDs.

Methods

Synthesis of organic materials. Hole injection material NPD (98% purity) and ETM TSPO1 (>99% purity) were purchased from Lumtec and Ossila, respectively, and were used as received. TDBA-DI and DCDPA were synthesized according to ref. [19]. DBFPO was synthesized using a modified previously published procedure (see Supplementary Note 2). The syntheses of 5,8-dibromo-2,3-bis(3-(octyloxy) phenyl)quinoxaline,5,8-dibromo-6,7-difluoro-2,3-bis(3-(octyloxy)phenyl) quinoxaline and bis(trimethylstannyl)thiophene were performed according to already published procedures[50]. Then, (3,4-difluorothiophene-2,5-diyl)bis(trimethylstannane) was purchased from Derthon Optoelectronic Materials Science Technology Co., Ltd. The experimental condition for the polymerizations is analytically described below: the 5,8-dibromo-2,3-bis(3-(octyloxy)phenyl)quinoxaline (0.5 mmol) was combined with (3,4-difluorothiophene-2,5-diyl)bis(trimethylstannane) (0.5 mmol) for the T2fQ and the 5,8-dibromo-6,7-difluoro-2,3-bis(3-(octyloxy) phenyl)quinoxaline (0.5 mmol) was combined with the bis(trimethylstannyl)thiophene (0.5 mmol) for the TQ2f. Then, distilled toluene (0.025 M) was added at the reaction mixtures. Finally, tris(dibenzylideneacetone)dipalladium(0) [$Pd_2(dba_3)$] (0.02 equiv.) and tri(o-tolyl)phosphine [$P(o\text{-}tol)_3$] (0.08 equiv.) were added, and the reaction mixture was stirred at 120 °C under argon atmosphere for 24 h. The polymers were purified by precipitation in methanol, filtered, and washed using a Soxhlet apparatus with methanol, acetone, hexane, and chloroform. The chloroform fractions were evaporated under reduced pressure and the polymers were precipitated in methanol, filtered through 0.45 mm PTFE filter and finally dried under high vacuum, rendering a dark brown solid with metallic appearance. The yields of the resulting polymers are the following: T2fQ = 93% and TQ2f = 91%. All reactions are air and light sensitive, and, therefore, were performed under argon and in the dark. All glasswares were washed using detergent (Teepol), rinsed with excess water, acetone, and methylene dichloride, and dried in an oven at 120 °C. All solvents and reagents were purchased from Aldrich. Toluene was distilled using calcium hydride (CaH_2) and benzophenone prior to polymerization.

Device fabrication and measurement of EL characteristics. The device structure was as follows: ITO/NPD (40 nm)/DCDPA or TQ2f or T2fQ (15 nm)/DBFPO 20% doped with TDBA-DI (30 nm)/TSPO1 (30 nm)/LiF (1 nm)/Al (100 nm). Prior to an

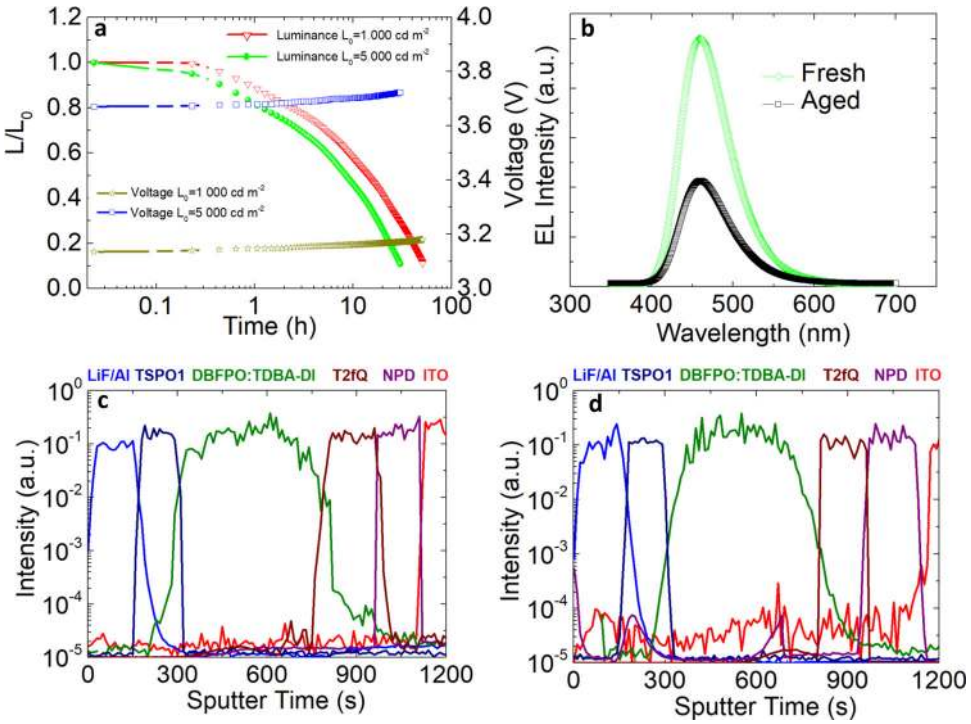


Fig. 5 Lifetime measurements. a Variation of normalized luminance vs. time and driving voltage vs. time for initial luminance of 1000 or 5000 cd m^{-2}. **b** Electroluminescence spectra of the fresh and degraded device. TOF-SIMS profiles of the **c** fresh and **d** degraded OLED stack: the *x*-axis represents the materials depth distribution starting with the cathode interface from data point 0 and reaching to the ITO anode electrode.

OLED fabrication, cleaned glass substrates were patterned with a 250 nm-thick ITO anode deposited through a shadow mask using RF magnetron sputtering in an inert argon environment at a pressure of 1×10^{-6} mbar at a rate of 0.06 Å s^{-1}. The substrates were heated to ~250 °C during deposition to increase the ITO conductivity. ITO-patterned glass substrates were sonicated in acetone, methanol, and 2-propanol for 15 min each and later dried in an oven. After that, the ITO substrates were treated with UV-ozone followed by organic layers deposition. NPD, DCDPA, DBFPO:TDBA-DI and TSPO1 were thermally deposited on the substrate in an inert chamber under a pressure of $<4 \times 10^{-4}$ Pa. The deposition rates of organic layers were 0.1–0.2 nm s^{-1}. TQ2f and T2Qf were spin coated from THF solutions at 4000 r.p.m. for 45 s. The solution concentration was 10 mg mL^{-1}. The solution concentration and spin rotation were optimized by performing several experiments. The deposition rate of LiF layer was 0.005–0.01 nm s^{-1}, whereas for Al layer was 0.3–0.4 nm s^{-1}. After the deposition of all layers, the OLED devices were encapsulated with a capping glass in an evaporation chamber filled with nitrogen. The OLED characteristics of all fabricated devices were recorded at RT in an air atmosphere using Agilent 4156C semiconductor parameter analyzer to monitor the electrical characteristics. The current density–voltage ($J-V$), luminance–voltage ($L-V$), and EL spectra were measured using a Konica Minolta CS-100A luminance meter and a CS2000A spectrometer coupled with a Keithley 2635A voltage and current source meter. The EQE measurements were conducted using C9920-12, Hamamatsu Photonics, Japan, with a source meter 2400, Keithley, Japan. Time-resolved PL measurements of the EML were conducted using a Hamamatsu streak camera containing a photocathode sensitized from the visible spectrum to 1300 nm and operated in the synchroscan mode. The samples were excited with 100 fs-long optical pulses at 365 nm by the frequency-doubled output of a mode locked Ti:sapphire laser. The film thickness was measured using a Dektak AlphaStep Profiler.

Photoluminescence measurements. Steady-state PL measurements of TQs, DBFPO, and TSPO1 films were carried out on a Horiba Fluorolog-3 spectrometer (FL 3–22, Horiba Jobin Yvon). Samples were excited at different wavelengths (404 nm for the TQs and 280 nm for TSPO1, DBFPO, and mixtures) with a slit width of 10 nm and the emitted photons were collected in front-face geometry. Time-correlated single-photon counting measurements were carried out on the DeltaFlex system (Horiba Scientific). For fluorescence measurements, samples were excited with a pulsed laser diode at 404 nm (NanoLED, pulse width < 200 ps). For phosphorescence measurements, samples were excited with a SpectraLED at 361 nm. The emitted photons were collected with a picosecond photon detector (PPD-900). The TRPL decay curves of the EML was recorded at a detection wavelength of 450 nm.

Angular-dependent fluorescence. Thin films of DBFPO:TDBA-DI were deposited on pre-cleaned glass substrates by vapor deposition and encapsulate with a capping glass under nitrogen atmosphere. The sample was attached to a hemi-cylinder prism with matched refractive index oil, and an excitation continuous wave laser with a wavelength of 365 nm and a power of <20 mW was illuminated on the thin films. Through a 410 nm cut-off filter, a polarizer, and collimating lens, PL intensity in a transverse magnetic mode was detected by a calibrated multi-channel spectrometer (PMA-12, Hamamatsu Photonics). The PL intensities were acquired in each out-of-plane angle from 0° (vertical to the substrate surface) to 90° (horizontal to the substrate surface) with a step of 2°. The collected radiation patterns were analyzed using a commercially available software (Setfos 4.0, Fluxim AG, Switzerland). The measurements were conducted in an inert nitrogen atmosphere to avoid photochemical degradation as well as PL quenching induced by a combination of oxygen and UV light. The measurements were repeated on different samples to ensure reproducible and consistent results. The dipole orientation of the TADF emitter in the host matrix was determined from the analysis of the angle-dependent PL spectra. The spectra were resolved by using a *p*-polarizing filter and were measured by a fiber optical spectrometer. The angle-dependent *p*-polarized emission intensity at the peak wavelength of the PL spectrum of the emitting layer was detected. The emitting dipole orientation (i.e., the horizontal dipole ratio $\Theta_{//}$) was then determined by least square fitting of the measured angle-dependent *p*-polarized emission intensity with calculated results.

Simulations. The theoretical limit of the device performance was performed using optical simulations based on the plane wave decomposition and as demonstrated by the scattering matrix formalism. Our simulations allowed us to calculate the maximum possible EQE, depending on the film thickness and refractive index in the stack layout by assuming balanced charge carrier injection and a singlet–triplet ratio of unity.

TOF-SIMS measurements. A TOF-SIMS V spectrometer was utilized to depth profile the organic materials and completed devices. Analysis was completed utilizing a three-lens 30 kV BiMn primary-ion gun and the Bi^+ primary-ion beam (operated in bunched mode, 10 ns pulse width, analysis current 1.0 pA) was scanned over a 25 × 25 µm area. Depth profiling was accomplished with a 1 kV oxygen-ion sputter beam (10.8 nA sputter current) raster of 150 × 150 µm. During profiling, all the spectra were collected at or below a primary-ion dose density of 1×10^{12} ions cm^{-2} to remain at the static SIMS limit. The data are plotted with the intensity for each signal at each data point normalized to the total ion counts measured at that data point, which diminishes artifacts from a changing ion yield in different layers when profiling through completed devices.

Gel permeation chromatography. Average molecular weights per number ($\bar{M}_n$) and polydispersity indices (Đ) were determined with GPC at 80 °C on a Shimadzu

liquid chromatograph (LC-20AD) system consisting of a DGU-20A5R degassing unit, a SIL-20AC HT auto sampler, a CTO-20AC column oven, a SPD-20AV UV-Vis detector, and a RID-20A refractive index detector connected in series. The system contains a PL-GEL 10 µm guard column, two PL-GEL 10 µm Mixed-C columns, and THF as the eluent. The instrument was calibrated with narrow polystyrene standards with M_p ranging from 4730 g mol^{-1} to 3187000 g mol^{-1}.

Nuclear magnetic resonance. ^{1}H- and ^{13}C-NMR measurements were carried out in solutions (1% w/v) of the copolymers using $CDCl_3$ (Acros 99.6%) as the solvent and tetramethylsilane as the integral standard on a Varian 600 MHz NMR spectrometer at ambient temperature.

Absorption spectrometry. UV-Vis absorption of the polymer solutions (concentration 10^{-5} M) and the fabricated films were recorded with a Shimadzu 1900 spectrometer.

Cyclic voltammetry. Cyclic voltammetry was conducted on a VersaSTAT4 potentiostat galvanostat with platinum (Pt) disk, Pt wire, and Ag/$AgNO_3$ electrode as the working electrode, counter electrode, and reference electrode, respectively, using a 0.1 M solution of tetrabutylammonium hexafluorophosphate (n-Bu_4NPF_6) in anhydrous acetonitrile at a potential scan rate of 50 mV s^{-1}. Thin films of samples were deposited onto the Pt disk working electrode from a chloroform solution. The potential of Ag/$AgNO_3$ reference electrode was internally calibrated by using the ferrocene/ferrocenium redox couple (Fc/Fc$^+$). The electrochemical energy levels were estimated by using the empirical formula: $E_{LUMO} = -[4.80 + (E_{onse}{}^{Ox} - Fc^{1/2})]$.

Theoretical calculations. All calculations of the model compounds studied in this work have been performed using the Gaussian 09 software package. The alkyl side chains substituents anchored onto the quinoxaline have been replaced with methyl groups in the model compounds for our calculations. Although the presence of these long alkyl chains enhances the solubility of these polymers and affects the charge carrier mobility and photovoltaic behavior of the polymer, from a computational point of view their replacement with shorter chains does not affect their optoelectronic properties (HOMO, LUMO, and bandgap) and thus the optimized structures of the molecules. The ground-state geometry of each model compound has been determined by a full geometry optimization of its structural parameters using the density functional theory (DFT) calculations, upon energy minimization of all possible isomers. In this work, the DFT calculations were performed using the HSEH1PBE/6-311G(d,p) basis set. All calculations were performed taking into account that the system is under vacuum conditions. No symmetry constraints were imposed during the optimization process. The geometry optimizations have been performed with a tight threshold that corresponds to root mean square residual forces smaller than 10^{-5} au for the optimal geometry. The energy level of the E_{HOMO} and the E_{LUMO} of the repetitive units of each polymer were carried out by using the same set of calculations. DFT/HSEH1PBE/6-311G has been found to be an accurate formalism for calculating the structural and electronic properties of many molecular systems. In our studies, the theoretical calculations were performed on dimer model compounds. The visualization of the molecular orbitals has been performed using GaussView 5.0.

Data availability

The data that support the findings of this study are available on request from the corresponding authors (M.V., A.R.b.M.Y and N.G.).

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Author contributions

M.V., M.D., N.G., A.R.b.M.Y., W.J.d.S., A.S., J.C., A.E.X.G., A.G.M., G.P. and F.K.S. performed the device experiments. G.R. and G.C.V. performed the synthesis of DBFPO. C.L.C. performed the design and synthesis of copolymers. N.G., M.D., P.J. and. Y.D. performed the photoluminescence measurements and analysis. M.V., A.R.b.M.Y., N.G., J.J. and J.S.K. developed the idea, supervised all experiments, and contributed to data analysis. M.V. and N.G. wrote the paper with contribution from all authors.

Competing interests

The authors declare no competing interests.

Additional information

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Registration

081026 01 55 1991 1 00087 250 0034977 36

I HEREBY CERTIFY that, upon review of the BIRTH REGISTRATION books maintained at this Registry Office, at the request of the interested party, I found the following entry: under number 34977, page 250 of Book A-87, on July (07) thirty-first (31st), nineteen ninety-one (1991), in this City and Judicial District of Campo Mourão, State of Paraná, the father appeared before this Registry Office, residing at Avenida Jorge Walter 868, in this city, and, in the presence of the witnesses named below and signing at the end hereof, declared that, on July twenty-sixth, nineteen ninety-one (07/26/1991), at 11:10 a.m., at Santa Casa de Misericórdia de Maringá Hospital, in Maringá - Paraná, a male child was born, who was given the name: **JÚLIO CONFORTO**, son of JOÃO PEDRO CONFORTO, mech, I mean: merchant, and FÁTIMA CARRARO CONFORTO, homemaker, 26 years old, both born in this State, married at this Registry Office (Book B=Aux.04, page 33), residing in this city, the paternal grandparents are DANILO CONFORTO and NILDA CONFORTO and the maternal grandparents are SANTO CARRARO and CATARINA PEREIRA CARRARO. Nothing further was declared; I certify it. Having been read and found to be correct, the record was signed by the witnesses José C. Cordeiro, factory worker, and Iracema Floriano, homemaker, residents in this city. (Fees payable to the Registry Office Cr$ 1,429.71 + CPC: Cr$ 49.29 + as: Cr$ 39.44). I, (signed) Ana Maria Colledan - Registrar, have ordered this certificate to be typed, reviewed, subscribed, and certified. (signed) João Pedro Conforto, José Carlos Cordeiro, Iracema Floriano, Mariza Aparecida de Oliveira, and Ana Maria Colledan. NOTE: The following ANNOTATION appears in the upper right margin of the aforementioned record: The registrant Júlio is registered with the CPF/MF under No. 079.523.439-20. I certify. 12/27/019. (signed) Caroline Elizabeth Hernandes - Authorized Clerk. A Public Deed of Declaration of Comon Law Marriage between JÚLIO CONFORTO and DIÉSSICA DE AZEVEDO, commenced on 05/30/2020, drawn up on 05/30/2020, at the Portão District Registry Office, Curitiba-Paraná, Book 544-N, pages 127/128, was registered at the 1st Civil Registry Office of Natural Persons of Curitiba, State of Paraná, Book E-214, page 180, number 13080, on 03/22/2021. I certify on 04/12/2021. (signed) Caroline Elizabeth Hernandes - Authorized Clerk. This is the full content record in the aforementioned book, which this certificate has been faithfully and accurately issued from the original, to which I refer and certify . *.*

CNS No. 081026
Civil Registry Office of Natural Persons and 3rd Notary Public Office

José Carlos de Moura
Registrar

Avenida Manoel Mendes de Camargo, 1553
ZIP Code: 87.303-115 Campo Mourão - Paraná

The content of this certificate is true. I certify.
Campo Mourão-Paraná, March 23, 2026.

Michelle Caroline Pinheiro Rodrigues
Clerk

Certificate drawn up by Michelle Caroline Pinheiro Rodrigues - Clerk of the Civil Registry of Natural Persons of Campo Mourão-Paraná - 081026, who electronically signed it on 03/23/2026, pursuant to Article 19 of Law No. 6.015/73, and article 228-F of the National Code of Norms of the Judicial Administrative Department of the National Council of Justice - Extrajudicial Forum (CNN/CN/CNJ-Extra).

I certify that, on 03/23/2026, this certificate was materialized from the one sent by the Civil Registry Information Center, and I verified the authenticity of its ICP-Brasil standard digital signature.

15TH NOTARY OFFICE AND 3RD CIVIL REGISTRY OFFICE OF NATURAL PERSONS
Rua XV de Novembro, 1234 - ZIP Code 80020-310
Eugênio Campos Building - Curitiba - Paraná

The content of this certificate is true. I certify.

----//signature//----

Curitiba - 3rd Registry Office - PR – 03/23/2026
Viviane Carla Da Silva - Clerk
Digital Materialization Seal: SFRC2UcRG84ZjYZTXEepF383p
Amount received for materialization: R$ 60.82

Validation: https://certidao.registrocivil.org.br/validar Validation Code: 4zkk-0816
The QR Code for the State Courts of Justice inspection seal will be available in the validation table for this certificate at the address indicated below if it is not printed on the certificate itself.

IA 017480860

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 23, 2026.

REPÚBLICA FEDERATIVA DO BRASIL
REGISTRO CIVIL DAS PESSOAS NATURAIS

REGISTRO CIVIL CURITIBA - PR

FUNARPEN - TJPR
Selo Digital de Fiscalização
SFRC2.hcTJ8.sw9tO
T6nAT.F178p
Consulte os dados do ato em:
consulta.funarpen.com.br

Validação: https://certidao.registrocivil.org.br/validar Código Validador: 4zkk-0816
O Qr Code do selo de fiscalização dos Tribunais de Justiça Estaduais estará disponível na tabela de validação desta certidão no endereço mencionado, quando não estiver presente na própria certidão.

CERTIDÃO EM INTEIRO TEOR DE NASCIMENTO COM ANOTAÇÃO DE UNIÃO ESTÁVEL

Nome
**** JÚLIO CONFORTO ****

Número do CPF
079.523.439-20

Matrícula
081026 01 55 1991 1 00087 250 0034977 36

CERTIFICO que revendo os livros de REGISTRO DE NASCIMENTOS deste Ofício, a pedido da pessoa interessada, neles encontrei um termo, de teor seguinte: sob número 34977, folha 250 do L.A-87, em trinta e um (31) de julho (07) de mil novecentos e noventa e um (1.991), nesta Cidade e Comarca de Campo Mourão, Estado do Paraná, em Cartório, compareceu o Pai, res. Av. Jorge Walter, 868, nesta cidade e, perante as testemunhas adiante nomeadas e no fim assinadas, declarou que, no dia vinte e seis de julho de um mil e novecentos e noventa e um (26/07/1991), às 11:10 horas, em Santa Casa de Misericórdia de Maringá, em Maringá - Paraná, nasceu uma criança do sexo masculino, que recebeu o nome de: **JÚLIO CONFORTO**, filho de JOÃO PEDRO CONFORTO, comre, digo: comerciante, e de FÁTIMA CARRARO CONFORTO, do lar, com 26 anos, naturais deste Estado, casados neste cartório, (L.B=aux.04,fls.33), residentes nesta cidade, sendo avós paternos DANILO CONFORTO e NILDA CONFORTO e maternos SANTO CARRARO e CATARINA PEREIRA CARRARO. Nada mais declarou; dou fé. Lido e achado conforme, assina com as testemunhas José C. Cordeiro, operário, e Iracema Floriano, do lar, residentes nesta cidade. (custas a serventia Cr$1429,71,+CPC.Cr$49,29,+as.Cr$39,44). Eu, (AS) Ana Maria Colledan - Oficial, que mandei datilografar este termo, conferi, subscrevi e dou fé. (AA) João Pedro Conforto, José Carlos Cordeiro, Iracema Floriano, Mariza Aparecida de Oliveira e Ana Maria Colledan. OBS.: Consta a margem superior direita do referido assento a seguinte AVERBAÇÃO: O reg. Julio é inscrito no CPF/MF nº079.523.439-20. Dou fé em 27/12/2019. (AS) Caroline Elizabeth Hernandes - F.H. Foi registrada no 1º RCPN de Curitiba-PR, L.E-214, fls.180, nº13080, em 22/03/2021, a Escritura Pública de Declaração de União Estável, iniciada em 30/05/2020, de JÚLIO CONFORTO e DIÉSSICA DE AZEVEDO, lavrada em 30/05/2020, no Sérviço Distrital do Portão-Curitiba-PR, L544-N, fls.127/128. Dou fé em 12/04/2021. (AS) Caroline Elizabeth Hernandes-Func. Homologada. Era o que continha em dito assento o qual foi bem e fielmente extraído do próprio original, ao qual me reporto e dou fé. *.*

CNS nº 081026
Serviço de Registro Civil das Pessoas Naturais e 3º Tabelionato de Notas

José Carlos de Moura
Oficial de Registro Civil

Av. Manoel Mendes de Camargo, 1553
CEP 87.303-115 Campo Mourão - PR

O conteúdo da certidão é verdadeiro. Dou fé.
Campo Mourão-PR, 23 de março de 2026.

Michelle Caroline Pinheiro Rodrigues
Escrevente

Certidão lavrada por Michelle Caroline Pinheiro Rodrigues – Escrevente do Registro Civil de Pessoas Naturais de Campo Mourão - PR - 081026, o qual assinou eletronicamente esta certidão em data 23/03/2026, nos termos do artigo 19 da Lei n. 6.015/73, e do artigo 228-F do Código Nacional de Normas da Corregedoria Nacional de Justiça do Conselho Nacional de Justiça – Foro Extrajudicial (CNN/CNJ-Extra).

Certifico que, em data de 23/03/2026, foi materializada esta certidão enviada pelo sistema do Operador Nacional do Registro Civil do Brasil, sendo a autenticidade do documento e da sua assinatura digital por mim conferida.

O Conteúdo da certidão é verdadeiro. Dou fé.

Curitiba - 3º Serviço - PR - 23/03/2026
Viviane Carla Da Silva - Escrevente
Selo da Materialização: SFRC2UcRG84ZjYZTXEepF383p
Valor recebido pela materialização: R$ 60,82

1º e 3º TABELIONATO E 3º SERVIÇO DE REGISTRO CIVIL DAS P. NATURAIS
Rua XV de Novembro, 1234 - CEP: 80020-310
Edifício Eugênio Campos - Curitiba - Paraná

IA 017480860

Documento gerado pelo Registro Civil

THE UNITED STATES OF AMERICA

I-797 | NOTICE OF ACTION | DEPARTMENT OF HOMELAND SECURITY U.S. CITIZENSHIP AND IMMIGRATION SERVICES

Receipt Number		Case Type
SRC2312350591		I129 - PETITION FOR A NONIMMIGRANT WORKER
Received Date	Priority Date	Petitioner
02/21/2023		SIEMENS CORPORATION
Notice Date	Page	Blanket Petition
03/28/2023	1 of 1	

BERRY APPLEMAN & LEIDEN LLP
c/o JAIMIE L FINLON
1 S WACKER DR STE 650
CHICAGO IL 60605

Notice Type: Approval Notice
Class: Blanket Petition
Valid from 03/06/2023 to Indefinitely (INDEF)
ETA Case Number: N/A

The above blanket petition is approved. Petition approval does not authorize the employment or training of any specific employee. When a worker is granted "L" nonimmigrant status based on this petition, he or she can work for the petitioner, but only as detailed in the individual Form I-129 or I-129S petition for the period authorized.

To include an individual employee as an intra-company transferee, the particular U.S. entity that wishes to employ the foreign worker should follow the instruction below that best fits the employee's situation.

If the employee is outside the U.S. and requires a visa, the U.S. entity that wishes to employ the foreign worker must complete Form I-129S, Nonimmigrant Petition based on Blanket L Petition. The employee must present the I-129S to an American consulate or embassy as part of an L-1 visa application.

If the employee is outside the U.S. and is visa exempt, the U.S. entity that wishes to employ the foreign worker must complete Form I-129S, Nonimmigrant Petition based on Blanket L Petition. If the employee is eligible under the U.S.-Canada Free Trade Agreement, the employee may present the I-129S directly at a U.S. port of entry as part of an application for admission in L-1 status. Otherwise, the U.S. entity should file the I-129S at the appropriate Service Center.

If the employee is in the U.S. in other than L-1 status and wishes to change status to L-1, the U.S. entity wishing to employ the foreign worker must complete a Form I-129, Petition for a Nonimmigrant Worker, and file it at the appropriate Service Center which processed the original blanket petition to request a change to L-1 status for the worker. These same requirements apply to a request for extension of stay on behalf of an employee who is currently in valid L-1 status.

The approval of this visa petition does not in itself grant any immigration status and does not guarantee that the alien beneficiary will subsequently be found to be eligible for a visa, for admission to the United States, or for an extension, change, or adjustment of status.

THIS NOTICE IS NOT A VISA AND MAY NOT BE USED IN PLACE OF A VISA.

The Small Business Regulatory Enforcement and Fairness Act established the Office of the National Ombudsman (ONO) at the Small Business Administration. The ONO assists small businesses with issues related to federal regulations. If you are a small business with a comment or complaint about regulatory enforcement, you may contact the ONO at www.sba.gov/ombudsman or phone 202-205-2417 or fax 202-481-5719.

NOTICE: Although this application or petition has been approved, USCIS and the U.S. Department of Homeland Security reserve the right to verify this information before and/or after making a decision on your case so we can ensure that you have complied with applicable laws, rules, regulations, and other legal authorities. We may review public information and records, contact others by mail, the internet or phone, conduct site inspections of businesses and residences, or use other methods of verification. We will use the information obtained to determine whether you are eligible for the benefit you seek. If we find any derogatory information, we will follow the law in determining whether to provide you (and the legal representative listed on your Form G-28, if you submitted one) an opportunity to address that information before we make a formal decision on your case or start proceedings.

Please see the additional information on the back. You will be notified separately about any other cases you filed.

USCIS encourages you to sign up for a USCIS online account. To learn more about creating an account and the benefits, go to https://www.uscis.gov/file-online.

Texas Service Center
U.S. CITIZENSHIP IMMIGRATION SVC
6046 N Belt Line Rd., STE 110
Irving TX 75038-0012

USCIS Contact Center: www.uscis.gov/contactcenter

Nonimmigrant Petition Based on Blanket L Petition

Department of Homeland Security
U.S. Citizenship and Immigration Services

USCIS
Form I-129S
OMB No. 1615-0010
Expires 02/28/2027

For Government Use Only

Received	Resubmitted	Fee Receipt	Action Block
Relocated Sent	Relocated Received	$500	Vice-Consul U.S. Consulate Rio de Janeiro
Validity Dates From: 8/12/2025 To: 8/11/2028		Beneficiary Interviewed on: 8/12/2025	
Denial Reason		Approved as: ☐ Manager/Executive ☒ Specialized Knowledge Professional	
		Approval Date: 8/12/2025	

To be completed by an attorney or BIA-accredited representative (if any).	☒ Select this box if Form G-28 or Form G-28I is attached.	Attorney State Bar Number (if applicable)	Attorney or Accredited Representative USCIS Online Account Number (if any)
		0077681 / 59195	

► START HERE - Type or print in black ink.

Part 1. Information About The Employer (Petitioner)

1. Name of the Petitioning Organization
   Siemens Medical Solutions USA, Inc.

Petitioner's Mailing Address

2.a. In Care Of Name (if any)
Maria Davydova, US Immigration Consultant

2.b. Street Number and Name
3850 Quadrangle Blvd.

2.c. ☐ Apt. ☐ Ste. ☐ Flr.

2.d. City or Town
Orlando

2.e. State FL 2.f. ZIP Code 32817

3. Is this mailing address the same as the physical location of the sponsoring company or organization?
☒ Yes ☐ No

If you answered "No" to **Item Number 3.**, provide the sponsoring company's or organization's physical address in **Item Numbers 4.a. - 4.e.**

Petitioner's Physical Address

4.a. Street Number and Name

4.b. ☐ Apt. ☐ Ste. ☐ Flr.

4.c. City or Town

4.d. State 4.e. ZIP Code

Petitioner's Contact Information

5. Daytime Telephone Number
407-257-6175

6. Fax Number

7. Email Address (if any)
maria.davydova@siemens.com

8. Website Address (if any)
https://www.siemens-healthineers.com/

Petitioner's Employees in the United States

9. Does the petitioner employ 50 or more individuals in the United States?
☒ Yes ☐ No

If you answered "Yes" to **Item Number 9.**, complete **Item Number 10.**

The ability to APPLY FOR I-94 may be unavailable on Thursday, May 14, 2026, from 2:00 AM to 2:45 AM (Eastern Time).

Official Website of the Department of Homeland Security

U.S. Customs and Border Protection | I-94/I-95 Website Travel Record for U.S. Visitors

Get Most Recent I-94

Get your most recent I-94 form to prove your legal visitor status in the United States

Need Help?

Most Recent I-94

Note to employers, local, state or federal agency granting benefits:
Please visit the CBP I-94/I-95 Website and click on the tab for "Get Most Recent I-94/I-95" to perform a search for the applicant to confirm that the biographic and travel information displayed on this I-94 printout matches the "Get Most Recent I-94/I-95" returned results for this applicant. Reference the CBP I-94/I-95 Website FAQs.

Admission I-94 Record Number: 702267006A4
Arrival/Issued Date: 2025 August 31
Class of Admission: L1B
Admit Until Date: 2028 August 11

Details provided on the I-94 Information form:

Last/Surname: CONFORTO
First (Given) Name: JULIO
Birth Date: 1991 July 26
Document Number: ge193654
Country of Citizenship: Brazil

Edit Search | Get Traveler History

Nonimmigrant travelers departing the United States by land or private vessel can now use the CBP Link Mobile Application to report their departure. Please note that departure should only be reported after you have physically left the United States. If you departed by air or sea, your departure was likely recorded automatically.

Print

VISTOS VISAS

VISA

UNITED STATES OF AMERICA



Issuing Post Name
RIO DE JANEIRO

Control Number
20252201040060

Surname
CONFORTO

Visa Type /Class
R L1

Given Name
JULIO

Passport Number
GE193654

Sex
M

Birth Date
26JUL1991

Nationality
BRZL

Entries
M

Issue Date
12AUG2025

Expiration Date
07AUG2027

Annotation
BLANKET L1
MUST PRESENT APPROVED I-129S
PN-SIEMENS CORP
P#-SRC2312350591

V4891120

PED-11AUG2028

VNUSACONFORTO<<JULIO<<<<<<<<<<<<<<<<<<<<<<<<

GE193654<0BRA9107267M2708078L1RDJ1WNCC620236

GE193654

Julio Conforto

Assinatura do titular / Signature du titulaire
Bearer's signature / Firma del titular

Este passaporte deve ser assinado pelo titular, salvo em caso de incapacidade.

Ce passeport doit être signé par le titulaire, sauf en cas d'incapacité.

This passport must be signed, except where the bearer is unable to do so.

Este pasaporte debe ser firmado por el titular, salvo en caso de incapacidad.

REPÚBLICA FEDERATIVA DO BRASIL

PASSAPORTE
PASSPORT



TIPO / TYPE: P
PAÍS EMISSOR / ISSUING COUNTRY: BRA
PASSAPORTE Nº / PASSPORT No: GE193654

SOBRENOME / SURNAME: CONFORTO

NOME / GIVEN NAMES: JULIO

NACIONALIDADE / NATIONALITY: BRASILEIRO(A)

DATA DO NASCIMENTO / DATE OF BIRTH: 26 JUL/JUL 1991

IDENTIDADE Nº / PERSONAL No:

SEXO / SEX: M

NATURALIDADE / PLACE OF BIRTH: MARINGÁ/PR

FILIAÇÃO / FILIATION: FATIMA CARRARO CONFORTO

JOAO PEDRO CONFORTO

DATA DE EXPEDIÇÃO / DATE OF ISSUE: 02 MAI/MAY 2022

AUTORIDADE / AUTHORITY: SR/DPF/PR

VÁLIDO ATÉ / DATE OF EXPIRY: 01 MAI/MAY 2032

P<BRACONFORTO<<JULIO<<<<<<<<<<<<<<<<<<<<<<<<
GE193654<0BRA9107267M3205013<<<<<<<<<<<<<<02

RESIDENZA / RESIDENCE / DOMICILE (11)

CURITIBA (BRA)

RESIDENZA / RESIDENCE / DOMICILE (11)

RESIDENZA / RESIDENCE / DOMICILE (11)

STATURA / HEIGHT / TAILLE (12)

177

COLORE DEGLI OCCHI / COLOUR OF EYES / COULEUR DES YEUX (13)

MARRONI

3

PASSAPORTO
PASSPORT
PASSEPORT



REPUBBLICA ITALIANA
Tipo. Type. Type. **Codice Paese.** Code of issuing State. Code du Pays émetteur. **Passaporto N.** Passport No. Passeport N°.

P ITA YC6970028

Cognome. Surname. Nom. (1)
CONFORTO

Nome. Given Names. Prénoms. (2)
JULIO

Cittadinanza. Nationality. Nationalité. (3)
ITALIANA

Data di nascita. Date of birth. Date de naissance. (4)
26 LUG/JUL 1991

Sesso. Sex. Sexe. (5) **Luogo di nascita.** Place of birth. Lieu de naissance. (6)
M MARINGA (BRA)

Data di rilascio. Date of issue. Date de délivrance. (7)
09 OTT/OCT 2024

Data di scadenza. Date of expiry. Date d'expiration. (8)
08 OTT/OCT 2034



Autorità. Authority. Autorité. (9)
MINISTRO AFFARI ESTERI
E COOPERAZIONE INTERNAZIONALE
Firma del titolare. (10)
Holder's signature / Signature du titulaire

Julio Conforto

P<ITACONFORTO<<JULIO<<<<<<<<<<<<<<<<<<<<<<<<
YC69700288ITA9107267M3410082<<<<<<<<<<<<<<08

--//signature//--
Bachelor Antonio Fernandes Vargas Dias
Registrar

FEDERATIVE REPUBLIC OF BRAZIL
CIVIL REGISTRY OF NATURAL PERSONS

MARRIAGE CERTIFICATE

Current names of the spouses	CPF Number
JÚLIO CONFORTO	079.523.439-20
DIÉSSICA DE AZEVEDO	065.335.259-05

Registration
104257 01 55 2025 2 00082 154 0023196 89
CNS REGISTRY OFFICE YEAR TYPE BOOK PAGE REGISTRATION VERIFICATION DIGIT

1st Spouse	Date of birth Day	Month	Year
JÚLIO CONFORTO	26	7	1991

Nationality	Marital status	City of birth	State
Brazilian	Single	Maringá	Paraná

Parent(s)
João Pedro Conforto; Fátima Carraro Conforto

Name adopted
JÚLIO CONFORTO

2nd Spouse	Date of birth Day	Month	Year
DIÉSSICA DE AZEVEDO	14	1	1991

Nationality	Marital status	City of birth	State
Brazilian	Single	Chapecó	Santa Catarina

Parent(s)
Ademar Gonçalves de Azevedo; Leoni Salete Simon de Azevedo

Name adopted
DIÉSSICA DE AZEVEDO

Date of the marriage ceremony or, in the case of conversion of a stable union, date of registration	Day	Month	Year
June seventeenth, two thousand twenty-five	17	6	2025

Property regime
Separation of Property

Date of marriage registration	Day	Month	Year
June seventeenth, two thousand twenty-five	17	6	2025

Notes/Annotations
Public deed of prenuptial agreement drawn up in book No. 752, page 119, on June 12, 2025, at the 2nd Notary Public and Title Protest Office of the Judicial District of Chapecó-Santa Catarina, city of Chapecó- Santa Catarina. Common Law Marriage commenced on 05/30/2020 pursuant to the Public Deed drawn up in book No. 544-N, pages 127/128 on 05/30/2020 at the District Civil Registry Office of Portão - Curitiba, Paraná, which is registered under No. 13080, page 180, book E-214 on 03/22/2021 at the 1st Civil Registry and 13th Notary Public Office of Curitiba-Paraná

See reverse side...

IA 004624819

CNS No. 10425-7

1st Civil Registry Office of Natural Persons, Interdictions, and Guardianships;
Civil Registry Office of Legal Entities, Titles, and Documents
City of Chapecó - Santa Catarina

Antônio Fernandes Vargas Dias
Registrar

Judiciary
State of Santa Catarina
Electronic Inspection Seal
Standard
HME36019-W8HY
Check the act data at:
http://selo.tjsc.jus.br/

Rua Guaporé, 280, E, Room 01, Centro - ZIP Code: 89802-300 -
cartoriodias@hotmail.com - (49) 3322-5705 - Chapecó - Santa Catarina

The content of this certificate is true. I certify.
Chapecó-Santa Catarina, June 17, 2025.

----//signature//----

ANTÔNIO FERNANDES VARGAS DIAS
Registrar

Typed by: Antônio Fernandes Vargas Dias
1 Marriage Registration - R$ 198.50
1 Annotation - R$ 21.03
5 Standard Inspection Seals (HME36019-W8HY, HME36020-SDTW, HME36021-99AY) - R$ 0.00
1 ISS (*Service Tax*) - R$ 9.10
1 FRJ (Allocation: 24.42% FUPESC; up to 24.42% Free Legal Aid; 4.88% Public Prosecutor's Office; 26.73%
Reimbursement for fee-exempt acts; 19.55% Judiciary of the State of Santa Catarina - R$ 51.69
1 Communication of the recorded act to another registry office - R$ 7.93
1 Card service fee - R$ 3.17
Total: R$ 291.42

DO NOT LAMINATE!

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FSC® C015699


DETAILED INFORMATION OF THE REGISTRATION
REGISTRATION STANDARD
DETAILING
NATIONAL REGISTRY OFFICE CODE (UNIQUE IDENTIFICATION OF THE NOTARY OFFICE)
ARCHIVE CODE, BEING:
01 - OWN ARCHIVE
OTHER - INCORPORATED ARCHIVES
TYPE OF SERVICE PROVIDED, BEING:
51: NOTARY SERVICE
52: TITLE PROTEST SERVICE
53: REAL ESTATE REGISTRATION SERVICE
54: TITLE AND DOCUMENT REGISTRATION SERVICE AND CIVIL REGISTRATION OF LEGAL ENTITIES
55: CIVIL REGISTRATION SERVICE OF NATURAL PERSONS
56: MARITIME CONTRACT REGISTRATION SERVICE
57: DISTRIBUTION REGISTRY
YEAR OF REGISTRATION
TYPE OF BOOK, BEING:
1: BOOK A (BIRTH)
2: BOOK B (MARRIAGE)
3: BOOK B (RELIGIOUS MARRIAGE REGISTRATION FOR CIVIL PURPOSES)
4: BOOK C (DEATH)
5: AUXILIARY BOOK C (STILLBIRTH REGISTRATION)
6: BOOK D (PUBLICATION OF BANNS REGISTRATION)
7: BOOK E (OTHER ACTS RELATED TO CIVIL REGISTRATION)
BOOK NUMBER
PAGE NUMBER
ENTRY NUMBER
CHECK DIGIT

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 22, 2026.

Bel. Antonio Fernandes Vargas Dias
Oficial Titular

REPÚBLICA FEDERATIVA DO BRASIL
REGISTRO CIVIL DAS PESSOAS NATURAIS

CERTIDÃO DE CASAMENTO

Nome atual dos cônjuges	Número do CPF
JÚLIO CONFORTO	079.523.439-20
DIÉSSICA DE AZEVEDO	065.335.259-05

Matrícula

104257 01 55 2025 2 00082 154 0023196 89

CNS ACER .SERV. ANO TIP. LIV. LIVRO FOLHA REGISTRO DÍG. VERIF.

		Data de nascimento Dia	Mês	Ano
1º Cônjuge: JÚLIO CONFORTO		26	7	1991
Nacionalidade: Brasileira	Estado civil: Solteiro	Município de naturalidade: Maringá		UF: PR
Genitor(es): João Pedro Conforto; Fátima Carraro Conforto				
Nome que passou a utilizar: JÚLIO CONFORTO				
2º Cônjuge: DIÉSSICA DE AZEVEDO		14	1	1991
Nacionalidade: Brasileira	Estado civil: Solteira	Município de naturalidade: Chapecó		UF: SC
Genitor(es): Ademar Gonçalves de Azevedo; Leoni Salete Simon de Azevedo				
Nome que passou a utilizar: DIÉSSICA DE AZEVEDO				

	Dia	Mês	Ano
Data da celebração do casamento ou, se for o caso de conversão da união estável, data do registro: Dezessete de junho de dois mil e vinte e cinco	17	6	2025

Regime de bens: Separação de Bens

	Dia	Mês	Ano
Data de registro do casamento: Dezessete de junho de dois mil e vinte e cinco	17	6	2025

Anotações/Averbações

Escritura pública de pacto antenupcial lavrada no livro nº 752, folha 119, em 12 de junho de 2025, no(a) 2º Tabelionato de Notas e Protesto de Títulos da Comarca de Chapecó SC, município de Chapecó-SC. União Estável iniciada em 30/05/2020 nos termos da Escritura Pública lavrada no livro nº 544-N, folhas 127/128 em 30/05/2020 no Cartório do Serviço Distrital do Portão - Curitiba PR, a qual se encontra inscrita sob nº 13080, folha 180, livro E-214 em 22/03/2021 no 1º Ofício de Registros Civil e 13º Tabelionato de Notas de Curitiba PR.

Continua no verso...

IA 004624819

Impresso em Gráfica Brasileira Ltda

CNS nº 10425-7

1° Ofício de Registros Civis das Pessoas Naturais e de Interdições e Tutelas;
Ofício de Registros Civis das Pessoas Jurídicas e de Títulos e Documentos
Município de Chapecó - SC

Antônio Fernandes Vargas Dias
Oficial

Rua Guaporé, 280, E, Sala 01, Centro - CEP: 89802-300 -
cartoriodias@hotmail.com - (49) 3322-5705 - Chapecó - SC

Poder Judiciário
Estado de Santa Catarina
Selo Digital de Fiscalização
Normal
HME36019-W8HY
Confira os dados do ato em:
http://selo.tjsc.jus.br/

O conteúdo da certidão é verdadeiro. Dou fé.
Chapecó-SC, 17 de junho de 2025.

ANTÔNIO FERNANDES VARGAS DIAS
Oficial

Digitado por: Antônio Fernandes Vargas Dias
1 Registro de casamento - R$ 198,50
1 Anotação - R$ 21,03
5 Selo de Fiscalização Normal (HME36019-W8HY, HME36020-SDTW, HME36021-99AY) - R$ 0,00
1 ISS - R$ 9,10
1 FRJ (Destinação: 24,42% FUPESC, até 24,42% Assist. Jud. Gratuita, 4,88% MP, 26,73% Ressarc. de atos isentos, 19,55% TJSC.) - R$ 51,69
1 Comunicação à outra serventia de ato praticado - R$ 7,93
1 Serviço cartão - R$ 3,17
Total: R$ 291,42
NÃO PLASTIFICAR!

FEDERATIVE REPUBLIC OF BRAZIL
CIVIL REGISTRY OF NATURAL PERSONS

FULL BIRTH CERTIFICATE

NAME

DIÉSSICA DE AZEVEDO

CPF Number

065.335.259-05

REGISTRATION

104257 01 55 1991 1 00062 113 0054316 50

I hereby certify that, upon review of the birth record books maintained at this Registry Office, at the request of the interested party, I found, in Book No. A-62, Page 113 reverse, under No. 54316, on January 25, 1991, the following birth record, which reads as follows: On January twenty-fifth (25th), nineteen ninety-one (1991), in the City and District of Chapecó, State of Santa Catarina, Ademar Gonçalves de Azevedo appeared before this Registry Office and, in the presence of the witnesses named below and signing at the end hereof, declared that on January fourteenth (14th), nineteen ninety-one (1991), at 6:35 a.m., at Santo Antônio Hospital and Healthcare Foundation (FHASA), in this City of Chapecó, Santa Catarina, DIÉSSICA DE AZEVEDO was born, female, daughter of Ademar Gonçalves de Azevedo and Leoni Salete Simon de Azevedo, both born in this State, married in Pinhalzinho, Santa Catarina, he a merchant, she a homemaker aged 25 at the time of childbirth, residing and domiciled in this city. The paternal grandparents are Antonio Gonçalves de Azevedo and Matilde Leonila Gonçalves, and the maternal grandparents are Romeu Aloisio Simon and Anita Maria Simon. Nothing further was declared. Having been read and found to be correct, the record was signed by the declarant and the witnesses, Orlei L. Cichowicz and Ana Bohner, Brazilians, of legal age, residing in this city. I, (signed) Nalú Maurita Diavan Dias, Deputy Registrar, certify and sign it. (signed) Ademar Gonçalves de Azevedo, Declarant; (signed) Orlei L. Cichowicz and Ana Bohner, Witnesses. Annotations/notes: 1) Diéssica de Azevedo is registered with the CPF under No. 065.335.259-05. This annotation was made at this Registry Office in book A-62, page 113, registration number 54316, pursuant to Provision No. 63/2017 of the National Council of Justice (CNJ). Exempt inspection seal GAN99144-AJZH. I certify it. Chapecó, Santa Catarina, February 15, 2021. (signed) Camila Maria Diavan Dias, Clerk. 2) According to the communication received today, a Public Deed of Common Law Marriage between Diéssica de Azevedo and Júlio Conforto was drawn up on 05/30/2020, in book 544-N, pages 127/128, at the Portão District Registry Office, Curitiba, State of Paraná, and recorded in Book E-214, Page 180, entry 013080, at the 1st Registry Office of Curitiba, Paraná. Exempt inspection seal GBU74766-47D9. I certify it. Chapecó, Santa Catarina, April 1, 2021. (signed) Dulce Mara Diavan Grando, Clerk. 3) Diéssica de Azevedo and Júlio Conforto converted their stable union into marriage, which was registered at this Registry Office under No. 23196, page 154, book B-82, on 06/17/2025. The spouses retained their single names. Property regime: Separation of Property. Standard inspection seal HME36021-99AY. I certify it. Chapecó, Santa Catarina, June 17, 2025. (signed) Raphaela Diavan Grando, Clerk. This is the full content recorded in the aforementioned book and page, from which this certificate has been faithfully and accurately issued, the original of which remains on file at this Registry Office, on the second day of March, of year two thousand twenty-six. I, Antônio Fernandes Vargas Dias, Registrar of the 1st Civil Registry Office of Natural Persons of the Judicial District seat of Chapecó, Santa Catarina, have ordered this certificate to be typed, checked, dated, certified, and signed.

Certificate drawn up by Antonio Fernandes Vargas Dias - Registrar of the Civil Registry of Natural Persons of Chapecó - Santa Catarina - 104257, who electronically signed it on 03/24/2024, pursuant to Article 19 of Law No. 6.015/73, and article 228-F of the National Code of Norms of the Judicial Administrative Department of the National Council of Justice - Extrajudicial Forum (CNN/CN/CNJ-Extra).

I certify that, on 03/24/2026, this certificate was materialized from the one sent by the Civil Registry Information Center, and I verified the authenticity of its ICP-Brasil standard digital signature.

Digital seal of issuance: HUE34214-TBH3
CNS No. 104257
Civil Registry Office of Natural Persons
Chapecó - Santa Catarina

Antônio Fernandes Vargas Dias - Registrar

Rua Guaporé-E, No. 280 - Centro, ZIP Code: 89802300 - Phone: (49) 3322-5705
Email: cartoriodias@hotmail.com

The content of this certificate is true. I certify.

----//signature//----

Curitiba – 3rd Registry Office – PR-080457
Viviane Carla Da Silva – Registry Clerk
Digital Materialization Seal: SFRG2UcbGB4ZjYZRXTepF38ap
Amount received for the electronic certificate: Full Birth Certificate R$ 54.78; Standard Inspection Seal (HUE34214-TBH3) R$ 0.00; ISS (*Service Tax*) R$ 2.19; FRJ (Allocation: 24.42% FUPESC; up to 24.42% Free Legal Aid; 4.88% Public Prosecutor's Office; 26.73% Reimbursement for fee-exempt acts 19.55% Judiciary of the State of Santa Catarina R$ 12.45 = Total: R$ 69.42
Amount received for materialization: R$ 60.82

15TH NOTARY OFFICE AND 3RD CIVIL REGISTRY OFFICE OF NATURAL PERSONS
Rua XV de Novembro, 1234 - ZIP Code 80020-310
Eugênio Campos Building - Curitiba - Paraná

A017480875

Validation: https://certidao.registrocivil.org.br/validar Validation Code: 8hjm-9n5e
The QR Code for the State Courts of Justice inspection seal will be available in the validation table for this certificate at the address indicated below if it is not printed on the certificate itself.

I, Carolina Favero da Silva, telephone number 415 425-2508, mailing address P.O. Box 90487, San Diego, CA 92169, certify that the professional translation of this document from Portuguese to English has been performed by myself, a qualified translator fluent in both languages, and that the following is an accurate and complete translation of the document.



Date: July 22, 2026.

REPÚBLICA FEDERATIVA DO BRASIL
REGISTRO CIVIL DAS PESSOAS NATURAIS

CERTIDÃO EM INTEIRO TEOR
NASCIMENTO

NOME
DIÉSSICA DE AZEVEDO

Número do CPF
065.335.259-05

MATRICULA
104257 01 55 1991 1 00062 113 0054316 50

Certifico que revendo neste Cartório a requerimento de parte interessada os livros de registro de nascimentos, neles o livro nº A-62, folha 113 verso, sob nº 54316, em 25 de janeiro de 1991, verifiquei constar o registro da seguinte teor: Como segue o texto: Em vinte e cinco (25) de janeiro de mil novecentos e noventa e um (1991), nesta Cidade e Comarca de Chapecó, Estado de Santa Catarina, em Cartório compareceu Ademar Gonçalves de Azevedo e, perante as testemunhas adiante nomeadas e no fim assinadas, declarou que no dia quatorze (14) de janeiro de mil novecentos e noventa e um (1991), as 06:35 horas, em dependências da FHASA, nesta cidade de Chapecó SC, nasceu DIÉSSICA DE AZEVEDO, do sexo feminino, filha de Ademar Gonçalves de Azevedo e de Leoni Salete Simon de Azevedo, naturais deste Estado, casados em Pinhalzinho SC, ele do comércio, ela do lar, com 25 anos de idade na ocasião do parto, residentes e domiciliados nesta cidade. São avós paternos Antonio Gonçalves de Azevedo e Matilde Leonilla Gonçalves e maternos Romeu Aloisio Simon e Anita Maria Simon. Nada mais declarou. Lido e achado conforme, assina o declarante e as testemunhas Orlei L. Cichowicz e Ana Bohner, brasileiros, maiores, aqui residentes. Eu, (as) Nalú Maurita Diavan Dias, Oficial Maior do Registro Civil, dou fé e assino. (as) Ademar Gonçalves de Azevedo, Declarante; (as) Orlei L. Cichowicz e Ana Bohner, Testemunhas. Averbações/anotações: 1) Diéssica de Azevedo está inscrita no CPF sob o nº 065.335.259-05. Averbação realizada neste Cartório no livro A-62, folha 113, registro número 54316, nos termos do Provimento nº 63/2017 do CNJ. Selo de fiscalização isento GAN99144-AJZH. Dou fé, Chapecó SC, 15 de fevereiro de 2021. (as) Camila Maria Diavan Dias, Escrevente. 2) Conforme comunicação hoje recebica, foi lavrada em 30/05/2020, no livro 544-N, folhas 127/128, no Serviço Distrital do Portão, Curitiba PR, Escritura Pública de União Estável de Diéssica de Azevedo e Júlio Conforto, e registrada no livro E-214, folhas 180, termo 013080, no 1º Serviço de Curitiba PR. Selo de fiscalização isento GBU74766-47D9. Dou fé. Chapecó SC, 01 de abril de 2021. (as) Dulce Maria Diavan Grando, Escrevente. 3) Diéssica de Azevedo e Júlio Conforto converteram sua união estável em casamento, o qual foi registrado neste Cartório sob nº 23196, folha 154, livro B-82 em 17/06/2025. Os contraentes permaneceram com o nome de solteiros. Regime de bens: Separação de Bens Selo de fiscalização normal HME36021-99AY. Dou fé, Chapecó SC, 17 de junho de 2025. (as) Raphaela Diavan Grando, Escrevente. Era o que se continha em o dito livro e folha, do qual bem e fielmente foi emitida a presente certidão, cujo original me reporto neste cartório, aos dois dias do mês de março do ano de dois mil e vinte e seis. Eu, Antônio Fernandes Vargas Dias, Registrador do 1º Ofício do Registro Civil de Pessoas Naturais da sede da Comarca de Chapecó SC, que mandei digitar a presente certidão, conferi, dato, dou fé e assino.

Certidão lavrada por Antonio Fernandes Vargas Dias - Oficial do Registro Civil de Pessoas Naturais de Chapecó - SC - 104257, o qual assinou eletronicamente esta certidão em data 24/03/2026, nos termos do artigo 19 da Lei n. 6.015/73, e do artigo 228-F do Código Nacional de Normas da Corregedoria Nacional de Justiça do Conselho Nacional de Justiça – Foro Extrajudicial (CNN/CN/CNJ-Extra).

Certifico que, em data de 24/03/2026, foi materializada esta certidão enviada pelo sistema do Operador Nacional do Registro Civil do Brasil, sendo a autenticidade do documento e da sua assinatura digital por mim conferida.

Selo digital da emissão: HUE34214-TBH3
CNS Nº 104257
Oficial de Registro Civil das Pessoas Naturais
Chapecó - SC

Antônio Fernandes Vargas Dias - Oficial

Rua Guaporé - E, nº 260 - Centro CEP: 89802300 - Fone: (49)33225705
e-mail: cartorlodias@hotmail.com

O Conteúdo da certidão é verdadeiro. Dou fé.

Curitiba - 3º Serviço - PR - 090457
Viviane Carla Da Silva - Escrevente
Selo digital da Materialização: SFRC2UcbG64ZjYZRXTepF383p
Valor recebido pela certidão eletrônica: Certidão inteiro teor R$ 54,78; Selo de Fiscalização Normal (HUE34214-TBH3) R$ 0,00; ISS R$ 2,19; FRJ (Destinação: 24,42% FUPESC, até 24,42% Assist. Jud. Gratuita, 4,88% MP, 26,73%; Ressarc. de atos isentos. 19,55% TJSC.) R$ 12,45 =Total R$ 69,42
Valor recebido pela materialização: R$ 60,82

15º TABELIONATO E 3º SERVIÇO DE REGISTRO CIVIL DAS P. NATURAIS
Rua XV de Novembro, 1234 - CEP: 80020-310
Edifício Eugênio Campos - Curitiba - Paraná

Validação: https://certidao.registrocivil.org.br/validar Código Validador: 8hjm-9r5e
O QR Code do selo de fiscalização dos Tribunais de Justiça Estaduais estará disponível na tabela de validação desta certidão no endereço mencionado abaixo quando não estiver presente na própria certidão.

A017480875


REPÚBLICA FEDERATIVA DO BRASIL
VISTOS / VISAS
VISA
UNITED STATES OF AMERICA
Issuing Post Name
RIO DE JANEIRO
Surname
DE AZEVEDO
Given Name
DIESSICA
Passport Number
GK692673
Sex
F
Birth Date
14JAN1991
Nationality
BRZL
Entries
M
Issue Date
12AUG2025
Expiration Date
07AUG2027
Annotation
BLANKET L2
PA: CONFORTO, JULIO
PN-SIEMENS CORP
P#-SRC2312350591
Control Number
20252201040061
Visa Type /Class
R L2
V4891121
PED-11AUG2028
VNUSADE<AZEVEDO<<DIESSICA<<<<<<<<<<<<<<<<<<<<
GK692673<1BRA9101140F2708078L2RDJ1WNCD762323



Diéssica de Azevedo

Assinatura do titular / *Signature du titulaire / Bearer's signature / Firma del titular*

REPÚBLICA FEDERATIVA DO BRASIL

GK692673

Este passaporte deve ser assinado pelo titular, salvo em caso de incapacidade.

Ce passeport doit être signé par le titulaire, sauf en cas d'incapacité.

This passport must be signed, except where the bearer is unable to do so.

Este pasaporte debe ser firmado por el titular, salvo en caso de incapacidad.

REPÚBLICA FEDERATIVA DO BRASIL

PASSAPORTE / *PASSPORT*

TIPO / *TYPE* P

PAÍS EMISSOR / *ISSUING COUNTRY* BRA

PASSAPORTE Nº / *PASSPORT NO.* GK692673

SOBRENOME / *SURNAME*
DE AZEVEDO

NOME / *GIVEN NAMES*
DIÉSSICA

NACIONALIDADE / *NATIONALITY*
BRASILEIRO(A)

DATA DO NASCIMENTO / *DATE OF BIRTH*
14 JAN/JAN 1991

CPF / *PERSONAL NUMBER*
065335259-05

SEXO / *SEX*
F

NATURALIDADE / *PLACE OF BIRTH*
CHAPECÓ/SC

FILIAÇÃO / *FILIATION*
LEONI SALETE SIMON DE AZEVEDO

ADEMAR GONÇALVES DE AZEVEDO

DATA DE EXPEDIÇÃO / *DATE OF ISSUE*
13 JAN/JAN 2025

AUTORIDADE / *AUTHORITY*
SR/PF/PR

VALIDO ATÉ / *DATE OF EXPIRY*
12 JAN/JAN 2035

P<BRADE<AZEVEDO<<DIESSICA<<<<<<<<<<<<<<<<<<<<

GK692673<1BRA9101140F3501128065335259O5<<<10