

CLAUDIA MILAGROS PACORI PALOMINO

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EDUCATION

Thayer School of Engineering at Dartmouth College, Hanover, NH **Jun 2025**

M.Eng.: Electrical/Computer

Relevant Coursework: Applied Machine Learning, Security and Privacy, Independent Studies (research)

University of Engineering and Technology, Lima, Peru **Dec 2024**

BE Electronics Engineering - Digital and Computer Systems Specialization

Honors/Awards: Academic scholarship, First in class

RESEARCH AND PUBLICATIONS

Development of a prototype for experimental identification of configuration parameters for LoRa links **Dec 2024**

Bachelor of Engineering (BE) thesis

Designed and implemented a system to optimize power consumption and packet delivery rate in wireless communication.

Prototype for automated LoRa parameter selection to optimize power consumption and bit rate **Nov 2024**

Paper presented at the IEEE LATINCOM 2024 (Medellin, Colombia)

Proposed an experimental approach LoRa parameter selection through the analysis of link quality indicators.

Design of an active orthosis for the rehabilitation of older adults affected with gonarthrosis **Oct 2024**

Paper published at the IEEE UEMCON 2022 (New York, USA)

Interdisciplinary project for a simplified mechatronic knee orthosis design for individuals with this degenerative condition.

Analysis of energy optimization in the CTS and EPS subsystems in a CubeSat **Aug 2024**

Participation in the Inspiring Women in STEM Project Fair 2023 (UTEC and PUCP universities, Lima, Peru)

Prototype for optimized energy consumption and program management in Real Time Operating System (FreeRTOS).

TECHNICAL SKILLS AND CERTIFICATIONS

Programming and Machine Learning:

- Languages: Python, C++, C, VHDL, MATLAB.
- Certifications: Supervised Machine Learning (DeepLearning.AI, 2024), Machine Learning for Data Science (Columbia University, 2023).

Embedded Systems and Electronics:

- Microcontrollers: ESP32, Atmega, STM32, PSoC, Basys3 (FPGA), Arduino.
- Certifications: PCB Design with Autodesk Eagle (IEEE, 2022), Arduino Fundamentals (IEEE, 2022).

Cloud Development and Web Technologies:

- Skills: HTML, CSS, JavaScript, MySQL, Flutter, Android Studio. Amazon Web Services, GitHub.
- Certification: Cloud Development with HTML, CSS, and JavaScript (IBM, 2022).

Language Proficiency: Spanish (native), English (C1 certified).

Additional Tools: Microsoft Office, organization tools, multimedia editing, graphic design.

WORK EXPERIENCE

Mettatec, Lima, Peru **Dec 2022 - Aug 2024**

Software Engineering Intern - R&D

- Developed software applications and supporting product design for centimeter-precision GNSS devices.
- Spearheaded 12 web solutions for real-time corrections and data processing adding significant value to the company-sold devices, enhancing data management and analysis capabilities for clients.
- Contributed to the development of an Android app for managing GNSS data, device configuration, and real-time monitoring.
- Assisted in hardware/firmware design, ensuring embedded systems compatibility for IoT and GNSS applications.
- Implemented a wireless monitoring system for containers with long-range communication capabilities.

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TEACHING AND MENTORING EXPERIENCE

University of Engineering and Technology, Lima, Peru

May 2021 - Jul 2024

Teaching and laboratory assistant in Thermodynamics and Digital Circuits

- Facilitated weekly theoretical and experimental classes in Thermodynamics to over 300 students every term, aiding in course planning and implementation during 9 consecutive semesters.
- Provided support during Digital Circuits lab sessions to over 90 students divided in four classes every term, effectively addressing student inquiries related to FPGA-based system development during 4 consecutive semesters.

University of Engineering and Technology

Ago 2020 - Dec 2022

Peer and academic mentor; Peer to peer coach

- Guided students through academic challenges, as evidenced by improvements in their performance and positive feedback, underscoring mentorship abilities and empathy.
- Provided personalized coaching and mentorship, enhancing students' learning experiences and academic success.

LEADERSHIP EXPERIENCE

Electronics and Mechatronics Department

Feb 2022 - Oct 2023

Student Representative

- Represented over 600 students, increasing engagement in university events and competitions by 40%, demonstrating effective communication and leadership.
- Bridged communication between faculty and students, improving the academic environment and fostering collaborative relationships.
- Planned and executed activities during a Greek Week-like event, showcasing organizational and event management skills.

BlyFOR in GIIT Robotics

Sep 2022 - Aug 2023

Chief Technology Officer (CTO)

- Spearheaded and organized a 20-member engineering team, showcasing strategic leadership and team development skills.
- Directed the development of a lower limb exoskeleton for the Cybathlon ETH Zürich 2024, highlighting project management and innovative technical problem-solving.

Society of Women Engineers UTEC

Jul 2019 - Dec 2022

Vice presidency

- Guided the growth of over 20 management team members and engaged nearly 200 attendees in events, underscoring leadership in diversity and inclusion initiatives.
- Developed and managed projects to increase women's representation in STEM, demonstrating advocacy and organizational skills.