Paola Dorado Galicia

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ABSTRACT

Sophomore Computer Engineering student at FIU with strong foundations in **C and C++ for embedded systems, digital logic, and circuit analysis**. Hands-on experience with **Arduino and microcontroller-based systems**, currently building projects with **ESP32 and IoT applications** through coursework and personal projects. Passionate about developing **inclusive, real-world applications** in assistive technology, robotics, and hardware-software integration, and eager to contribute as an **Embedded Systems Engineering Intern**.

EDUCATION

Florida International University | Miami, Fl Jan. 2024 - Dec. 2027 (Expected)

Bachelor of Science in Computer Engineering

- **Relevant Coursework**
  Programming I & II, Discrete Structures, C Programming for Embedded Systems, C++ Programming for Embedded Systems, Logic Design I + Lab (In Progress), Circuit Analysis and Lab (In Progress).
  Activities
  INIT FIU, WiCS FIU, Google Developer Student Club, AAVE.

Instituto Tecnológico de Las Américas | SDQ, Dom. Rep. Jul. 2019 - Oct. 2019

Certificate Program in Artificial Intelligence

EXPERIENCE

Learning Assistant - Mastery Math Lab Aug. 2025 - Present

Florida International University

- Provided **tutoring and academic support** to 100+ undergraduate students in Math courses.
- Assisted with planning, developing, and implementing **departmental projects** to improve student learning.
- Facilitated problem-solving workshops and presentations in collaboration with faculty.
- Applied **educational software tools** to enhance learning outcomes.

PROJECTS

Real-Time Face Emotion Recognition | Python

- Implemented deep learning to classify 7 human emotions in real time.
- Strengthened experience in **Python, machine learning, and computer vision**.

Temperature Monitoring and Feedback System | Arduino, C++

- Designed and programmed an Arduino-based **temperature monitoring system** using TMP36 sensor.
- Applied **analog-to-digital conversion (ADC)** and programmed LED indicators for **real-time visual feedback**.

MicroBit Maqueen – Line Following & Obstacle Avoidance Robot | MicroBit, MakeCode, TypeScript

- Collaborated in a team to develop an autonomous **line-following and obstacle-avoiding robot**.
- Implemented **motor control, ultrasonic sensing, and event-driven programming** for real-time navigation.

TECHNICAL SKILLS

Embedded Systems: Arduino UNO, Arduino GIGA, ESP32 (In Progress), MicroBit
Programming: C, C++ (Embedded), Python, Java, SQL
Hardware Interfaces: GPIO, PWM, I2C, SPI, UART, ADC/DAC
Tools: Arduino IDE, PlatformIO, VS Code, Git/GitHub, MySQL
Languages: Spanish (Native), English (Fluent)