

José Pablo Ramírez

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EDUCATION

Universidad Panamericana

B.S. Mechatronics Engineering

Guadalajara, MX

Aug. 2018 – June 2022

Universidad Panamericana

Postgraduate Degree, Automation and Control

Guadalajara, MX

Aug. 2022 – June 2023

EXPERIENCE

IoT & Embedded Systems Engineer – Interactive Prototypes

Topol Studio

Guadalajara, MX

Feb. 2024 – Present

- Designed embedded and IoT prototypes for interactive projects.
- Implemented end-to-end solutions: component selection, PCB design, firmware programming, and integration with software systems
- Computer Aided Design and Modeling
- Designed and programmed microcontroller logic (C++/Python) to integrate sensors, actuators, and communication protocols.

PROJECTS

ValveRAC | Python, Ubidots API, Firestore API, HTML/CSS, JavaScript

- * Built a full-stack interface to display sensor data with asynchronous database handling.
- * Programmed a Raspberry Pi in Python for real-time data transmission via LTE.
- * Integrated APIs (Firestore & Ubidots) for scalable cloud-based monitoring.
- * Designed and implemented frontend components for real-time data visualization.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, Java

Frameworks & Tools: Spring, Arduino, Git, SolidWorks

Databases: MySQL

Embedded & IoT: Raspberry Pi, ESP32, API Integration

Software: VS Code, KiCad, Arduino IDE

CERTIFICATES

C Programming for Everybody - University of Michigan (Coursera) 2025

Python for Everybody - University of Michigan (Coursera) 2025

OOP Java - IBM (Coursera) 2025

Version Control - META (Coursera) 2024

Mechanical Design level ASSOCIATE - SolidWorks 2019

LANGUAGES

Spanish: Native

English: Advanced