

Ramón Everardo Hernández Hernández

Bachelor in Communications and Electronics Engineering Student

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PROFILE

Suitable engineering student with a commitment to scientific research and technological advancement in Mexico, I have 5 years of experience in software development through multiple personal projects, applying modern tech tools used in the current work field.

EDUCATION

Bachelor in Communications and Electronics Engineering

ESIME Campus Zacatenco

2020 - Present Mexico City, Mexico

Relevant Courses: Local Area Networks, Software Engineering, Engineering Quality, Numerical Analysis, Data structures & Algorithms and Computers architecture.

EXPERIENCE

Research assistant

Computing Research Center

Nov 2023 - Present Mexico City, Mexico

- Implementation of numerical methods for simulation modeling in **Python**
- Numerical solution programming with **NumPy**
- Interpretation of results and plots using **matplotlib**
- Data analysis and manipulation using **pandas**
- Use of **GitHub** repositories and use of the **Git** version control system
- General approach to **simulation** using partial differential equations (**PDEs**)

Project - Embedded Programming with RP2040

ESIME Campus Zacatenco

May 2023 - Jul 2023 Mexico City, Mexico

- Development of an **embedded system** in **MicroPython** and **C** languages
- Use of **multithreading** for the execution of two processes on the **RP2040** microcontroller
- Proper **integration** of multiple electronic components according to **manufacturers datasheets**
- **Writing** of systematic documentation and **schematization** of electronic circuits

Project - Habilis VR Glove

CETMAR No. 20

Oct 2019 - Jun 2020 Veracruz, Mexico

- Interpretation and manipulation of analog measurements via **serial communication** using an **ATmega328** microcontroller
- Connection bridge between Arduino and Unity 3D via **.NET**
- Writing of **systematic documentation** for the project
- Participation in technology project events as an **exhibitor**

TECH STACK

Skills

Python C++
C# Lua
JavaScript

Databases

MySQL

Cloud platforms

Azure

Software

MatLab
Code Composer Studio
Cisco Packet Tracer
OrCAD Capture CIS
NI Multisim

LANGUAGES

- **Spanish** [Native]
- **English** [C1 Advanced]