Marco Antonio Hernandez

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RESUME OBJECTIVE

- **Analytical** and **strategic Embedded Developer** with **2+ years** of **professional experience,** providing the **highest quality standard** within the job.
- **Creator** of **custom firmware** for the **ESP32, Raspberry Pi** and **other MCU** by using **C/C++, Python 3** and **MicroPython**; in order to **program** some of those **devices, knowledge** of **Linux** is beneficial and often required. **Debian** is my **daily driver.**
- **Skilled** in the **firmware development part** of **prototyping** or **upgrading (new models)** of **electronic products.**
- **Proven experience** taking a **project** from **bringing** a **board up** and **creating** the **custom software** based on the **software specification document.**
- With **training** in **machine learning, familiar** with the **most used libraries** and **frameworks** in the field; I am **proficient** in **acquiring technical knowledge quickly.**
- **Ambitious** and **proactive doer** with a **growth oriented vision,** committed to **drive high impact positive results** that **improve** the **client's processes** in **quality, time** and **cost.**

WORK EXPERIENCE

Freelance | *Various Clients*   *Houston, TX, USA*
Embedded Developer   **OCT 2019- present**
- In charge of **developing software/firmware** for mostly **IoT devices; custom firmware** using **Python 3, MicroPython** and **C/C++** for the **Raspberry PI** and **ESP32** for mostly **connected devices,** which use **BLE, Wi-Fi and LoRa.**
- **Implemented software** for a **robot** using **ROS** and **BASH.**

- **Identification** of the **parts/components** of the **prototype** being worked upon, **coordinating modifications** with the **hardware engineers** which are necessary to **achieve** the **functionality** specified by the **client.**

Achievements: *Restructured the **code** of an **application** into a **commercial product,** allowing **adjustments** and **improvements** to the **code** in a faster and more intuitive way | **Developed** the **firmware** of a **new project** and **coordinated** the **creation** of **mobile applications (Android/iOS)** for the product.*

Lambda School | *Online Technical Coding Education Program*   *Remote*
Team Lead   **MAY 2019- OCT 2019**
- Spearheaded daily standup meetings to facilitate sharing of ideas and work progress; provided **one-on-one feedback** and **code review** on a **weekly basis.**
- Delivered **supplemental lectures** on various topics related to **software engineering** and **Linux.**

Vertafore | *Insurance Software Solutions*   *Denver, CO, USA*
Linux Application Support Engineer   **NOV 2017- APR 2018**
- **Created bash scripts** to **backup data** to **remote servers** and **performed basic system administration tasks** (configuration, making services available to users).
- Handled **PowerShell** to **write scripts** to **partially automate software audit process; tested** and **deployed software updates** and **upgrades.**

SKILLS& COMPETENCES

Spanish | *Native*	**Create Firmware |** *Intermediate*	Responsibility
English | *Proficient*	**Bare Metal Programming |** *Intermediate*	Effective communication
Python | *Intermediate*	**Logic Analyzers |** *Intermediate*	Delivery of results
MicroPython | *Intermediate*	**C/C++ |** *Beginner-Intermediate*	Strategic thinking
Bash | *Intermediate*	**AWS |** *Beginner-Intermediate*	Innovative vision
Git | *Intermediate*	**PostgreSQL |** *Beginner-Intermediate*	Attention to detail
Linux | *Intermediate*	Leadership	Logical problem solver
Read Schematics | *Intermediate*	Result oriented	Analysis

EDUCATION

Certificate | *Data Science and Machine Learning*   **APR 2018- OCT 2018**
Lambda School   *Online*
*Used **Python's Data Science** and **Machine Learning libraries** to gather, explore, clean data; build, train, test and launch supervised/unsupervised models.
*Coursework included: **neural networks, deep learning, databases, Spark** and **TensorFlow.**

Certificate | *Information Technology*   **DEC 2009- DEC 2011**
Ogden-Weber Technical College   *Ogden, Utah, USA*
*Programming** and **Internet Specialization.**
*Courses: **C++, JavaScript, HTML, CSS, Photoshop** and **UI/UX Design.**

FURTHER TRAINING

- *Certification |* **AWS Certified Developer- Associate |** *AWS- Amazon Web Services* **| JUN 2020**.
  Verified certification: credly.com/badges/b52d5634-f18a-411c-bc3a-eebd570f86b3
- *Certification |* **AWS Certified Machine Learning- Specialty |** *AWS- Amazon Web Services* **| JUN 2020.**
  Verified certification: credly.com/badges/93c13f69-dcfb-4b3a-8676-15375a096f7e