# Jaime Arrocha

## Software Engineer

Phone: +1 561 314 5027 Email: jarrocha27@gmail.com

www: innercoder.dev

LinkedIn: linkedin.com/in/jaime-arrocha-337b0488

**Environment:** C, C++, Python

Environment: C, C++, C#, Go, ObjC

Environment: C, C++, Python, Go

**Environment:** C, C++, Python

**Environment:** C, C++, Python

**Environment:** C, C++, Python, Bash

**Environment:** C, C++, C#

## **Professional Summary**

Experienced software engineer with over 7 years developing complex multithreaded networks systems for various industries. Specializing in C, C++, Assembly, C#, Golang and Python for cross-platform software and embedded devices.

#### **Technical Skillset**

- **Languages**: C/C++, Assembly, Go, Python, C#, Java.
- Interfaces: UART, SPI, I2C, BLE, CAN.
- RTOS: uBoot, Linux-RT, mBedOS, freeRTOS.
- MicroServices: gRPC, Protocol Buffers, JSON, REST.
- Hardware: STM32, MSP430, RPi, BBB.
- Tools: Yocto, GCC, Schematics, Logic Analyzers.
- Linux: Device Drivers, Buildroot, Yocto.
- Networking: AWS, Azure, MongoDB, SQLite.

#### **Experience**

**Embedded Software Engineer Consultant** - 01/2022 to Present **Universal Electronics Inc. –** Carlsbad, CA - Remote

- Integrate over-the-air (OTA) update system for custom home automation smart devices.
- Develop custom Linux BSP for newly developed product.

Embedded Software Engineer - 12/2020 to 11/2021

Beckman Coulter - Miami, FL - Remote

- Designed software solutions for a cross-platform embedded device.
- Developed dynamic libraries for native real-time threads management on Linux for .Net projects.
- Created tools to help debug memory collection issues for .Net.

Senior Software Engineer - 05/2019 to 12/2020

Gladinet Inc. - Boca Raton, FL

- Worked on the development of a distributed cloud file system for Windows, Mac, and Linux.
- Design involved both user space for cloud service and kernel space for the virtual filesystem.
- Maintained a client branding system for app customization based on C# and a benchmark client on Go.

Senior Software Engineer - 07/2017 to 05/2019

Independent - Boca Raton, FL

Provided consulting services to clients with RESTful network applications, CI deployments, Linux based automation tools and graphic engines.

Embedded Software Engineer - 08/2016 to 07/2017 Intel Corp. - Austin, TX

- Integrated unit-testing framework and code coverage analysis to the embedded software cycle.
- Worked on BSP testing, cross-compilation tools and uBoot configuration for Linux on embedded devices.
- Participated on development for a prototype TCP-based communication protocol for commit verification.

**Software Integration Engineer** - 01/2014 to 05/2016 Sycomp - Dallas, TX

Wrote customized programs for configuration, booting, image backup and restore of Linux-based firewalls.

Software Network Engineer - 04/2013 to 01/2014

One Cloud Networks - Dallas, TX

Developed tools for monitoring of voice signals and network usage for a UNIX based system.

### **Professional Development**

**Udacity**: Training on Autonomous Systems and Computer Vision – 2022

edX: Training on Linux based Wireless Embedded Devices – 2022

Linux Foundation: Developing Linux Device Drivers and Linux Kernel Internals – 2015

#### Education

Master of Science: Electrical Engineering, Expected in Fall 2022

**University of Colorado** – Boulder, CO

**Bachelor Science:** Electrical Engineering

Missouri University of Science and Technology - Rolla, MO

#### Interests

Autonomous Systems, Cloud Distributed Systems, RTOS, Embedded Systems, Machine Learning.