

# Ismael J Rivera

## EXPERIENCE

### enVention

*CDLIM Software Engineer*

Huntsville, AL  
Mar. 2019 – Present

- Implementing and Integrating new Data Link.

### enVention

*OpMate Framework Engineer*

Huntsville, AL  
Nov. 2017 – Mar. 2019

- Refactored internal messaging library to add support for repeated fields and field composition, improving overall capabilities and performance.
- Created a unit benchmark infrastructure using the Google Benchmark library and refactored existing benchmarks.
- Assisted in setting up a Docker environment to facilitate scheduled environment setup and automated testing.
- Added support for Gcov to automate testing environment to generate code coverage documentation for unit tests.
- Designed and implemented an asynchronous message analysis infrastructure for automated message validation and error correction.

### Lockheed Martin Corporation

*THAAD Software Engineer*

Huntsville, AL  
August 2014 – Nov. 2017

- Maintained simulation applications that involved multi-threaded subsystems and network connections
- Developed a Peer Review script that generates a code package in html format with syntax highlighting
- Maintained tools utilized to decode binary data and improved performance by over 70% by utilizing better data structures and searching algorithms
- Developed interface to use the DIS (Distributed Interactive Simulation) standard.
- Received multiple awards for Excellent Performance

## EDUCATION

### University of Central Florida

Bachelor of Science in Computer Engineering

Orlando, FL  
August 2014

## PROJECTS

**T-100 Watchdog (Senior Design Project)** – an autonomous vehicle that detects motion, tracks, and moves in the direction of the target.

**UCF ECE Senior Design Website** – Built a website for the UCF ECE Senior Design class where students can see previous and current projects.

**Discount Finder** – Android Application to find deals based on user's location.

## AWARDS

University of Central Florida Dean's List

South Florida State College President's & Dean's List

## SKILLS

Linux, Java, C++(11,14), Perl, C

Fluent in English and Spanish

Secret Clearance