Ismael J Rivera

EXPERIENCE	**Cohesion Force, Inc.** *MASC-F - Member Technical Staff*	Huntsville, AL April 2021 - Present

- Assist with Team Lead duties and planning.
- Refactored Internal Analysis tool to reduce runtime from multiple hours down to minutes.
- Implemented Asynchronous solution to improve data processing.
- Analyzed and designed models to improve and maintain real-time performance.
- Documenting Software Design and Architecture.

	enVention *Senior Software Engineer*	Huntsville, AL Nov. 2017 – April 2021

- Designed and implemented a new Data Link process to handle messages asynchronously and interact with multiple peers.
- Integrated with simulation drivers and performed log and performance analysis.
- Created a unit benchmark infrastructure using the Google Benchmark library.
- Designed and implemented a Docker environment to facilitate scheduled environment setup and automated testing.
- Automated testing environment to generate code coverage documentation for unit tests.

	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%
- Developed interface to use the DIS (Distributed Interactive Simulation) standard.

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** – Website for Senior Design class projects.	
SKILLS	Linux, C++ (11+), Python, Go, C, Java, Perl Fluent in English and Spanish Secret Clearance	