Reinaldo **Molina**

M.S. Software Engineering · B.S. Electrical Engineer

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"Beat yesterday, nothing else."

Summary

Test Software Developer for Navigation Inertial Systems for 4 years. Familiar with several hardware communication, and power control interfaces. Involved in all stages of the development cycle, and in technical leading activities such as estimate providing, and schedule tracking. Passionate about software development, FOSS, and all things Linux.

Work Experience

Honeywell Aerospace International

Clearwater, FL

Software Engineer II — *May 2015 - Present*

- Developed Test Software that controlls several hardware interfaces, such as: Power Supplies, MAXT Card (PXI-400-2) MIL-STD-1553 Module, DIO module, NI DMM Card (PXI NI-4071), NI Oscilloscope Card, and NI Relay Card (PXI-5114)
- Implemented graphical user interface to display data from various Inertial Navigation Systems.
- Improved automated test scripting standards, test review checklists, and test execution procedures which significantly reduced review and execution time.
- Coordinated and resolved testing and development issues that engineers and customers had in Puerto Rico, Clearwater, Albuquerque, South Korea, and New Jersey (Morristown).
- *Awards:* Honeywell Aerospace 2017 Outstanding Engineers.
- *Promotions:* Engineer II Aug. 2017.

Internship at BlackBerry

Ft. Lauderdale, FL

Electrical Test Engineer — *Fall - 2014*

- Member of the handheld hardware development team with the responsibility over the design, integration, and verification of the baseband and digital subsystems for a mobile computing design
- The focus of my roll was testing communication interfaces such as I2C

Skills

Programming Languages	C and C++. Python, Java, C#, R, Shell, TEX, Vimscript.
Source Control	Git, SVN.
Hardware	Digital Signal Analyzer, Oscilloscopes, DMMs, Soldering SMT parts, PCB Design.
Certifications	LabView Certified Associate Developer (2013), Six Sigma Green Belt (2015).
Development Boards	Odroid, BeagleBone, Raspberry Pi, CPLDs, and FPGAs.
Linux Distributions	Arch, Ubuntu, Lubuntu.
IDEs	Visual Studio, Atmel Studio, Android Studio, Borland C++ Builder, Unreal Engine.
Languages	Fluent in English and Spanish

Engineering Experience

Design of an Autonomous QuadCopter

Gainesville, FL

Senior Design Course — *Spring - 2015*

- Design a QuadCopter with the purpose of surveying a specific GPS area with aid of a camera
- *Technologies: C++, ROS, Odroid, Embedded Software, PCB Design, OpenCV, Ubuntu, ATxmega*

Precision Agriculture Research Lab

Gainesville, FL

Research Student — *Summer - 2014*

- Member of a research group working on the development of an autonomous system which objective is to recognize and eliminate weeds from within crop fields.
- *Technologies: C++, BeagleBone, Embedded Software, OpenCV, Ubuntu*

T.A. for the Digital Logic Lectures

Gainesville, FL

Teacher Assistant

Summer - 2014

- Some of the responsibilities included teaching the laboratory section, grading homework, quizzes, exams and laboratories, and providing office hours.

Design of an Autonomous Rover Vehicle

Gainesville, FL

Intelligent Machine Design Lab Course

Fall - 2013

- Construction and design of a vehicle capable of doing facial recognition, color recognition, and obstacle avoidance.
- Selected as one of the top 3 projects of the class. For more information please go to (https://sites.google.com/site/thepatrollingandroid/home).
- *Technologies: C++, ROS, Odroid, Embedded Software, OpenCV, Ubuntu, ATxmega*

Education

Pennsylvania State University

World Campus

M.S. in Software Engineering

Aug. 2017 - Aug 2019

University of Florida

Gainesville, FL

B.S. in Electrical Engineering

Jan. 2012 - May 2015

Broward College

Ft. Lauderdale, FL

A.A. in Engineering

Jan. 2010 - Dec. 2011

- Graduated with the Highest Honors