

Reinaldo Molina

B.S. ELECTRICAL ENGINEER · M.S. SOFTWARE ENGINEERING

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"Beat yesterday, nothing else."

Summary

Test Software Developer for 4 years. I have worked in C++ Object Oriented Software (OOS) design, also familiar with Python, R, and C#. I have a Master's Degree from the University of Pennsylvania in Software Engineering. I have been part of fixing and adding critical parts to Test Software for Defense Navigation Systems. I am also heavily involved in the providing Estimates to Customers, and in Leading activities, such as Schedule tracking and have provided technical support to other departments and co-workers. Passionate about software development, FOSS, and all things Linux.

Work Experience

Honeywell Aerospace International

Clearwater, FL

SOFTWARE ENGINEER II

May 2015 - Present

- Member of the ETS (Electronic Test Systems) group that maintains and develop production test software.
- Software Description: Control a hardware station composed of power supplies, several communication interface cards, computer, oscilloscope, and DMM in order to test GPS and Inertial Navigation Units.
- Software development language C and C++.
- Software features: Large code base with +30M lines of code. Support for many communication interfaces such as MIL-STD-1553, MIL-STD-1394, UART, among many others. Implemented its own scripting language.
- **Awards:** Selected as one of the Honeywell Aerospace 2017 Outstanding Engineers.
- **Awards:** Promoted to Engineer II Aug. 2017.

Internship at BlackBerry

Ft. Lauderdale, FL

ELECTRICAL TEST ENGINEER

Fall - 2014

- The focus of this position was to work on the baseband/digital subsystem. Some of the components under test were the processor, memories, and sensors.

Education

Pennsylvania State University

World Campus

M.S. IN SOFTWARE ENGINEERING

Aug. 2017 - Aug 2019

- **Relevant Courses:** Web Security, Capstone Experience
- **GPA:** 3.64

University of Florida

Gainesville, FL

B.S. IN ELECTRICAL ENGINEERING

Jan. 2012 - May 2015

- **Relevant Courses:** Digital Design, Integrated Product and Process Design (IPPD)
- **GPA:** 3.12

Broward College

Ft. Lauderdale, FL

A.A. IN ENGINEERING

Jan. 2010 - Dec. 2011

- **GPA:** 3.90. Graduated with the Highest Honors

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. Development on an Odroid board, running Ubuntu, language used C++.

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. Development on a BeagleBone board, running Ubuntu, language used C++.

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>).

Skills

Programming C and C++.

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, CPLDs, and FPGAs.

Linux Distributions Arch, Ubuntu, Lubuntu.