

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

Clearwater, FL, USA

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# Summary \_

With 5 years of software development experience, I have worked on multiple Windows and Linux applications. I have strong knowledge on C++ and Object Oriented analysis and design. Involved in all stages of the development cycle, and in technical leading activities such as work estimates and schedules. I am a passionate software engineer with special interest in Free Open Source Software, and all things Linux.

# **Work Experience**

#### **Honeywell Aerospace International**

Clearwater, FL

SOFTWARE ENGINEER III May 2015 - Present

- · Develop C++ code for complex in house testing framework using standard library containers and multithreading models.
- Developed Test Software that controlls several hardware interfaces, such as: Power Supplies, DIO modules, relays, oscilloscopes, and various National Instruments analysis cards.
- Implemented graphical user interface to display data from various Inertial Navigation Systems.
- Improved automated test scripting standards, test review checklists, and test execution procedures, significantly reducing review and execution time
- Coordinated and resolved testing and development issues that engineers and customers had at multiple locations (South Korea, PR, FL, NM, NJ).
- Awards: Honeywell Aerospace 2017 Outstanding Engineers.
- · Promotions: Engineer III Oct. 2019.
- Promotions: Engineer II Aug. 2017.

Internship at BlackBerry Ft. Lauderdale, FL

ELECTRICAL TEST ENGINEER

Fall - 2014

- Member of the handheld hardware development team responsible for the design, integration, and verification of the baseband and digital subsystems for a mobile computing design.
- Directly responsible for testing all communication interfaces.

## Skills

**Programming Languages** C++. Python, Java, C#, UML, T<sub>E</sub>X, Vimscript.

IDEs Visual Studio, CMake, Atmel Studio, Android Studio, Borland C++ Builder.

**Linux Distributions** Arch, Ubuntu, Lubuntu.

**Development Boards** Odroid, BeagleBone, Raspberry Pi, CPLDs, FPGAs.

**Certifications** LabView Certified Associate Developer (2013), Six Sigma Green Belt (2015).

**Languages** Fluent in English and Spanish.

# Free Open Source Software Development\_

### file-audit-system

LINUX FILE SYSTEM MONITORING AND AUDITING APPLICATION

Roll: Author & Maintener

- File monitoring software that logs file access to configured directories on the system.
- https://github.com/tricktux/file-audit-system.
- Technologies: C++-11, CMake, Linux Auditing System

### nvimpp

MULTIPLATFORM NEOVIM MSGPACK-RPC C++ LIBRARY

Roll: Author & Maintener

- Communicates with neovim's RPC server over stdin and stdout.
- Used to create enhanced Graphical User Interfaces for neovim.
- https://github.com/tricktux/rnvim
- Technologies: C++-14, CMake, msgpack, msgpack-rpc, gtest

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#### dotfiles

COLLECTION OF DOTFILES FOR OVER 15 DIFFERENT LINUX, AND WINDOWS APPLICATIONS

Roll: Author & Maintener

- https://github.com/tricktux/dotfiles
- Technologies: tmux, zsh, ssh, gnupg, bash, i3wm, git, (neo)vim, polybar, cmus, neomutt, pacaur

### molinamail.com

SELF HOSTED SERVER FOR: EMAIL, CLOUD STORAGE, CALENDAR, AND CONTACTS

Roll: Author & Maintener

- Feel free to email me at: me at molinamail dot com
- https://box.molinamail.com/email
- Technologies: DigitalOcean, AWS-Route53, Mail-In-A-Box, fail2ban, ufw

# **Academic Engineering Experience**

## **Final Project for Master's Program**

Clearwater, FL

CAPSTONE EXPERIENCE

Summer - 2019

- Team Effort to develop a Patient Portal System web application.
- The application included: Ability to register, make appointments, todo list items, doctor chat, view health records, prescriptions, and pay bills.
- Technologies: Amazon Web Services: EC2, SES, Route53. Java, Python, Selenium, Gradle, Spring Boot, Junit

## **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++, CMake, 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 whose objective is to recognize and eliminate weeds from crop fields.
- Technologies: C++, BeagleBone, Embedded Software, OpenCV, Ubuntu

### T.A. for Digital Logic Lectures

Gainesville, FL

TEACHER ASSISTANT

Summer - 2014

• Responsibilities included teaching the laboratory section, grading homework, quizzes, exams, 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.
- https://sites.google.com/site/thepatrollingandroid/home
- Technologies: C++, CMake, 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