.S. Software Engineering · B.S. Electrical

Clearwater, FL, USA

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Summary _

With 5 years of software development experience. I have worked on desktop applications for Window's and GNU/Linux's. I have strong knowledge about C++ and objective oriented analyze and design. 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 Unix.

Work Experience _____

Honeywell Aerospace International

Clearwater, FL

SOFTWARE ENGINEER III

May 2015 - Present

- Develop C++ code for complex in house testing framework using the standard library containers and threading model
- 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 III Oct. 2019.
- Promotions: Engineer II Aug. 2017.

Internship at BlackBerry

Ft. Lauderdale, Fl

FLECTRICAL 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++. Python, Java, C#, UML, T_EX, 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.

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).

Languages Fluent in English and Spanish

FOSS (Free Open Source Software) _____

file-audit-system

LINUX FILE SYSTEM MONITORING AND AUDITING APPLICATION

Roll: Author & Maintener

- File monitoring software that will log 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 the stdin and stdout
- Usually used to create enhanced Graphical User Interfaces for neovim
- Currently only supports Linux OS
- · https://github.com/tricktux/rnvim
- Technologies: C++-14, CMake, msgpack, msgpack-rpc, gtest

MARCH 10, 2020 REINALDO MOLINA · RÉSUMÉ 1

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

Engineering Experience

Final Project for Master's Program

Clearwater, FL

CAPSTONE EXPERIENCE

Summer - 2019

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

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 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++, 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

Broward College

Ft. Lauderdale, FL

A.A. IN ENGINEERING

Jan. 2010 - Dec. 2011

• Graduated with the Highest Honors