Joseph V. Martin

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Education

University of Maryland - College Park, MD *Graduated: December 2014*
B.S. Mechanical Engineering,
B.S Computer Science

Engineering and Computer Science Experience

Software Developer and Consultant *June 2013 – Present*

- Developed a Ruby on Rails application for Professor Joseph Perfetti that parses Bloomberg financial data and displays it in a custom graphing environment accessible to Mr. Perfetti's consulting clients
- Developed a Ruby on Rails application for College Scooters Inc. that tracks scooter maintenance and notifies users of progress via email.
- Ported code written as a GNU Radio module for an RF Signal Intelligence box to work with an updated GNU Radio environment in Ubuntu 14.04.

Silver Palm Technologies LLC – Software Engineer *December 2011 - Present*

- Developed a test driver in UNIX environment that enumerates a PCI-Express lane, then reads and writes from/to the card's internal memory.
- Programmed a PIC Microcontroller in C language for use in an RF transmitter circuit designed to sense pressure and temperature emergencies in household appliances.
- Developed a method for VPN network connection testing to be done within Silver Palm headquarters: used to troubleshoot remote client connections
- Developed user interface for control of an appliance via an LCD display screen

Languages/Skills

- Fullstack Web Development: Ruby on Rails, AngularJS, HTML5, CSS3, MEAN(Mongo, Express, Angular, Node), JQuery.
- Mobile: Native IOS and Android Development, Familiar with Ionic Framework for hybrid applications.
- Systems Programming: PIC Processors, GNU Radio, TCP/IP Networking, Unix device communication (libusb, eth ports), Arduino
- Computer Science Theory: Knowledge of data structures, advanced algorithms and software engineering design principles

Honors

- University of Maryland Honors Program – Requires student to maintain at least 3.2 GPA
- Dean's List, Engineering/CS - Spring 2011, Fall 2013 - Fall 2014
- Won 1st Prize at HackRU - Created a web-based algorithmic bench-marker, Fall 2013