

Marcus Grant

SOFTWARE DEVELOPER · ELECTRICAL ENGINEER

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Summary

Passionate Electrical and Software Engineer with personal, professional, and academic experience in Embedded Systems & iOS Development. Approaches software development with a full understanding of computing systems from high level design architectures to how those designs direct transistors on the atomic level. After a successful trial run in financial analysis it became clear through using programming to augment my analysis that software development is best fit for a rewarding career.

Skills

| | |
|---------------------|---|
| Languages | C/C++, Objective C, Swift, Python, MATLAB, Bash, x86 & AVR Assembly |
| Platforms | iOS, OS X, Linux/UNIX, ARM, AVR, Arduino |
| Dev Software | Xcode, Vim, Git, Atom, AVR-GCC, Bash, SSH, Arduino |
| Frameworks | RESTKit, AFNetworking, CoreData, Lumberjack, UIKit/CocoaTouch, GCD, Quick, Delegates, Blocks, CloudKit, Parse |

Education

Rochester Institute of Technology

Rochester, NY

B.S. IN ELECTRICAL & ELECTRONICS ENGINEERING

Sept. 2008 - Dec. 2015

- Course focus on Embedded Systems, and Robotics
- Minors in Business Administration and German Language & Culture
- 50 weeks of major-specific work experience as per degree requirements (detailed in experiences section)
- Senior Design Project, a group effort to create a golf ball placement robot that with 2" accuracy places golf balls on a real golf green relative to a golf simulator created by another team
- SLAM (Simultaneous Localization And Mapping) Robot implementation using only time of flight sensors, optometry, and an Extended Kalman Filter

Flatiron School

New York, NY

iOS DEVELOPMENT 12-WEEK FULL-TIME BOOTCAMP

Jun. 2015 - Aug. 2015

- Crowd-sourced MTA timing app
- Whack-a-Doge SpriteKit Game
- Several completed labs that taught specific iOS development skills are on github

Experience

Applied Value LLC

New York, NY, USA

ANALYST

Sept. 2014 - Jun. 2015

- Wrote Python programs and Visual Basic scripts to automate the process of scraping finance data to be used for analysis. This reduced time to verify financial data, improved granularity of data from fiscal year to last twelve months, and reduced the time spent by other analysts to acquire and verify data.
- Performed analysis on said financial data to help create plans to improve client company's operational efficiency.
- Created VBA scripts and interfaces to update email and phone lists of clients and potential clients, drastically reducing the time spent for sales team manage their contact lists.
- Performed deep-dive research on companies to determine their potential as a client or investment based on industry technology and market research.

ABB Inc.

Västerås, Sweden

EMBEDDED SOFTWARE DEVELOPER INTERN

Sept. 2012 - Mar. 2013

- Wrote scripts in bash on automation servers to test hardware and robotic environment. Adding old test functionality to their new operating system.
- Added and tested event-driven interrupt routines in C++ and their own proprietary RAPID language, to improve safety of pick-place robots on new family of controllers that halt the system if there are any safety conditions not met.
- Helped develop libraries in C++ that ported functionality of old controller operating system to a new one that was being released.

Sony Ericsson (Currently Sony Mobile)*Lund, Sweden*

ELECTRONICS ENGINEER INTERN

May 2011 Aug. 2011

- Tested and debugged manufacturing samples of different mobile circuit boards to help team find areas where either the design of the boards could improve or the manufacturing process, which ended in two design revisions.
- Designed and created a regulator testing device that could log voltage regulator transient response under different load conditions, improving the team's ability to quickly diagnose power conditioning problems of engineering sample boards.

Redback Networks (Acquired by Ericsson)*San Jose, CA, USA*

ELECTRONICS ENGINEERING INTERN

Jun. 2010 Aug. 2010

- Helped Design and test logic shifters, regulators and fan controllers for their networking products.