

John Harrison

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Research Interests

- Robotic Embedded Systems - the construction and use of programmable embedded systems.
- Programming Languages - understanding design concepts and implementation details of programming languages including compiler technologies, virtual machines and runtime support.

Education

M.S.W.E., Computer Science and Software Engineering, Auburn University

- Graduate GPA: 3.71 cumulative

B.S., Computer Science and Software Engineering, Auburn University

Experience

Embedded System Emulation Research Project, Auburn University
Fall 2010 – Fall 2011

- Designed and developed a Hardware Emulator for the Embedded Operating Systems class for Dr. Biaz. Based off the Atmel AVR Atmega328 with support for the Arduino Platform API.

Google Summer of Code

Summer 2010

- I was selected to work on the Parrot Virtual Machine for the Parrot Foundation as part of the Google Summer of Code. The Project was to improve the native call interface systems.

Web Developer, Virticle, Auburn, AL

March 2007 - Spring 2010

- eCommerce site construction and maintenance
- Developed web solutions for various

Extra Curricular Experience

ION Robotic Lawn Mower Competition

Summer 2011, Summer 2010

- Helped designed and developed the software the robot systems.
- Won 2nd place in 2011.
- Won 3rd place in 2010.

ACM President

Spring 2010 - Spring 2011

- In spring 2010, I was elected the ACM President over the Auburn University Student Chapter.

ACM-ICPC

Fall 2009

- Participation In 2009 ACM-ICPC programming competition.

Node JS, Perl 6, DataMapper and other Open Source projects

- Various bug fixes, extensions and feature enhancements.

Computer Skills

Languages:

C/C++, Python, Haskell, Perl, Javascript, Objective-C and Java

Software:

ROS, Autotools, Bash, MySQL, SQLite3, Apache, and VIM

Operating Systems:

OS X, Linux, UNIX and POSIX Systems