Matthew Behlke

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Objective

Obtain a co-op employment during the spring and summer of 2015 to gain in-depth programming knowledge and experience.

Education

ROCHESTER INSTITUTE OF TECHNOLOGY — Rochester, NY
Bachelor of Science in Computer Engineering, expected May 2016 — GPA: 3.22/4.00

EVT

RIT Electric Vehicle Team - Firmware team since Feb. 2014, 5-8 hours per week contributed

- writing data logger in python on Beaglebone microcontroller attached to race bike; receives messages over CAN and transmits them to a web app for storage and analysis; mentoring a freshman on this project
- designing web application to receive, visualize, and analyze metrics received from the race bike using Node.js, AngularJS, and Google Charts
- writing BMS in embedded C on a PIC microcontroller; specific contributions include A/D conversion, sensor readings, converting from Arduino, custom boot loader in progress

Projects

Microcontroller Car: Programmed an R/C car to follow a line using an mBed and C
Smart Vending Machine: Led a team in developing an MVC Java application

Experience

IBM — Littleton, MA
Software Engineer Intern - Cognos TM1 — June 2014 - August 2014

Wrote unit, integration, and performance tests for JavaScript and Java and fixed defects discovered by the tests; implemented an automated testing framework for JavaScript to integrate with existing Java framework; connected testing framework to Jenkins build system; used Dojo JavaScript toolset

Data Innovations — Fort Myers, FL
Software Engineer Intern — August 2013 - December 2013

Put legacy Java code under unit test; ran acceptance tests and fixed the defects that were found in Java; designed and developed a new Java application; created a RESTful web service in Ruby on Rails; followed the test-driven development process throughout

RIT Information and Technology Services — Rochester, NY
Senior Service Desk Representative — November 2012 - present

Skills

Languages: C#.NET (1 yr.), Java (1 yr.), C/C++ (9 mos.), Python (6 mos.), JavaScript (6 mos.), Assembly (6 mos.)
Software: Xilinx, ModelSim, OrCad Capture, Visual Studio, Git, Linux
Hardware: Oscilloscope, Function Generator, Multimeter

Labs

Assembly: Wrote various programs and tested them on a Freescale microcontroller
Circuits: Constructed and analyzed various RLC circuits
Electronics: Constructed and analyzed circuits with MOSFETs and op-amps

Leadership

Electronic Gaming Society: Event Organizer, 2011 - 2013

Awards

RIT Presidential Scholarship
Dean's List: Fall 2011, Spring 2012, Spring 2014