Michael Shullick

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EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

BS in Computer Engineering
Expected May 2019 | Rochester, NY
GPA: 3.7 / 4.0
Honors, Dean's List,
Presidential Scholarship

Lab Courses
Assembly Language Programming
Circuit Analysis I & II
Computer Science I & II
Digital System Design I & II
Electronics I

LINKS

Facebook:// **mshullick**
Github:// **shoelick**
LinkedIn:// **mshullick**

SKILLS

PROGRAMMING

Languages
C • C++
ARM Cortex-M0+ Assembly
Java • Python • C#
Javascript • PHP • CSS

Tools:
ROS • OpenCV
MVC Design • LaTeX • VHDL • Bash
Octave • Neural Networks
Linear/Logistic Regression
JQuery • CMake

HARDWARE

Oscilliscopes • FPGAs
Digital Logic Circuit Design
Arduino • Raspberry Pi

SOFTWARE

Altera Quartus II
Xilinx ISE • Modelsim
Linux • Subversion • Git
IntelliJ • PyCharm • Netbeans
MySQL • Microsoft Office
PTC Creo • Autodesk Inventor
Apache • Django

OBJECTIVE

A computer engineering co-op through the summer 2017. Seeking experience with automation, robotics, and machine learning.

EXPERIENCE

ROCKWELL AUTOMATION

Embedded Software Engineer Co-op
May 2016 – Jan 2017 | Mayfield Heights, OH
- Maintained prototype firmware for next generation of analog I/O modules, including driver development and implementing tests for EMC verification.
- Co-Project Manager and developer for co-op driven machine vision-enabled checkers-playing robot project.
- Contributed to general firmware development of safety-certified next-generation PLC I/O modules.

ROCHESTER INSTITUTE OF TECHNOLOGY

Teaching Assistant for Digital Systems Design I
Jan 2015 - Present | Rochester, NY
Student Lab Instructor for CS I - Python
Aug 2015 - Dec 2015 | Rochester, NY

FORCE ROBOTS, LLC

Software Internship
May 2015 – Aug 2015 | Cleveland, OH
- Contributed to software development for an articulate robot designed to finish casted and machined components
- Wrote a function that could identify part features using OpenCASCADE C++ CAD library in order to work towards making the robot more easily "teachable"
- Independently developed a specialized JQuery plugin for graphing data useful to robot programming

RIT - NATIONAL TECHNICAL INSTITUTE OF THE DEAF

Video Production Assistant
Sep 2014 – May 2015 | Rochester, NY
- Edited deaf-oriented productions using Final Cut Pro and Adobe Premier
- Live-event camera operator
- Provided general troubleshooting and support between software updates

PROJECTS

CHESS-PLAYING ROBOT | Personal Side Project

August 2015 – Present | Rochester, NY
ROS package at http://git.io/vuc3t
Independently building robot arm based on Raspberry Pi capable of playing chess. Using open source tools ROS, OpenCV, and Stockfish chess engine. Design based on ABB PalletPack.

MINDCLOUD IDEA NETWORK | ImagineRIT Exhibit

Jan 2015 – May 2015 | Rochester, NY
http://mindcloud.io
Lead development of a website similar to Quora, but focused on market discovery and product innovation. Built from scratch a PHP-powered MVC backend and designed a frontend based on the JQuery framework Foundation. Explored entrepeneurial opportunities. Presented at RIT's Creativity and Innovation festival.