Michael Shullick

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FDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

BS/MS IN COMPUTER ENGINEERING

Expected May 2019 | Rochester, NY GPA: 3.6 / 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 Interface & Digital Electronics

LINKS

Portfolio: shullick.net Github:// shoelick LinkedIn:// mshullick

SKILLS

PROGRAMMING

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

Tools:

ROS • OpenCV Machine Learning • LETEX Octave • Bash

HARDWARE

Oscilliscopes • FPGAs Digital Logic Circuit Design Numerous Development Boards

SOFTWARE

Altera Quartus II Xilinx ISE • Modelsim Keil µVision • IAR Workbench Linux • Subversion • Git IntelliJ • PyCharm • Netbeans PTC Creo • Autodesk Inventor Solidworks

OBJECTIVE

An engineering internship for the summer of 2017. Seeking experience with hardware design 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 I/O modules, including driver development and implementing tests for EMC verification.
- Contributed to general firmware development of safety-certified next-generation PLC I/O modules on an international team of developers.
- Served as co-project manager of co-op led Career Fair Project: a checkers-playing robot gantry. Responsibilities included maintaining project timelines and communication between team, managers, and vendors.
- Designed a simple machine vision API and gained experience sizing motors and gearboxes based on a system's torque and inertia requirements.

ROCHESTER INSTITUTE OF TECHNOLOGY

RESEARCH ASSISTANT

Jan 2017 - Present | Rochester, NY

• Contributing to research on hierarchical temporal memory. Identifying opportunities for optimization and gaining experience with mainstream machine learning using distributed systems.

TEACHING ASSISTANT FOR DIGITAL SYSTEMS DESIGN I

Jan 2016 - May 2016 | Rochester, NY

STUDENT LAB INSTRUCTOR FOR CS I - PYTHON

Aug 2015 - Dec 2015 | Rochester, NY

FORCE ROBOTS, LLC

SOFTWARE DEVELOPMENT INTERN

May 2015 - Aug 2015 | Cleveland, OH

- Contributed to both backend and frontend software development for an articulate robot designed to finish casted and machined components.
- Independently developed a specialized JQuery plugin for graphing data useful to robot programming.
- Made deployment of code easier by setting up CMake with a large project and creating a distributable package.

PROJECTS

VANTAGE NEWS APPLICATION | IMAGINERIT EXHIBIT

Jan 2017 - Present | Rochester, NY

Leading development of a mobile application that makes it easier to be informed by relating similar stories, detecting fake news, and providing context through related history and primary sources. Learning to apply natural language processing and graph databases.

CUSTOM ROBOT ARM | Personal Side Project

August 2015 - September 2016

Independently designed and fabricated a robot arm driven by a Raspberry Pi running ROS. Mechanical design based on ABB Palletpack. Learned how to train OpenCV cascade classifiers to identify chess pieces for potential robot application.