

Michael Baumgarten

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EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Expected May 2020 | Rochester, NY

LINKS

Github:// [miba358](#)

LinkedIn:// [michaelpbaumgarten](#)

COURSEWORK

Software Engineering
Computer Science
Digital System Design
Assembly Language Programming
Computer Organization
Circuits & Electronics
Applied Programming

SKILLS

PROGRAMMING

Java • Python
LaTeX • JavaFX
C • ARM Assembly
C++ • VHDL • HTML
Bash • SQL • golang
RESTful Design • JSON
Gherkin/Cucumber

SOFTWARE

Eclipse • Excel
Matlab • Linux
PyCharm/IntelliJ
Git • SVN • Wireshark
Internet Protocol Suite
Atlassian Tools • AWS
ModelSim • Vagrant

HARDWARE

Raspberry Pi • Arduino
ARM mbed • FPGA
IC Design • ESP8266
PCB Design
microcontrollers

OBJECTIVE

To apply knowledge of Computer Engineering and gain experience through co-op employment. Available January-August 2019.

WORK EXPERIENCE

PARSONS | COMPUTER ENGINEERING CO-OP

January 2018 – July 2018 | Centreville, VA

- Object-oriented programming (Java), vm/container provisioning/deployment
- Collaborate with cross-functional teams to solve complex problems
- Balance multiple projects at one time

AUTO/MATE | SOFTWARE ENGINEERING INTERN

May 2017 – August 2017 | Colonie, NY

- Object-oriented programming (Java)
- 3rd-party API integration work
- AWS Tools, Cloud Formation, S3 and lambda

TEACHING ASSISTANT | ENGINEERING FUNDAMENTALS OF COMPUTER SYSTEMS / ASSEMBLY LANGUAGE PROGRAMMING / INTRO TO COMPUTER ENGINEERING

Spring 2017 – Current | Rochester, NY

- Introduction of embedded systems for SE students. Raspberry Pi used as development platform with programs written in C/ARM assembly

PERSONAL PROJECTS

AUTONOMOUS PLANE PROJECT | C++/EMBEDDED DESIGN/AI

September 2018 - Present

Lead engineer on Autonomous Flying Plane project under the RIT Aero Design Team. Involved skills include sensor calibration, data analysis, PID controller design and AI.

EPA (EFFICIENT PARKING APPLICATION) | OPENCV PROJECT

February 2017 – Present

Scaled parking management system for use at RIT. Using computer vision algorithms, current open parking spots are processed and uploaded to a server. An end-user app was created to pull this information for the everyday commuter.

EXTRACURRICULAR

Aero Design Team

Vice President & Electronics Lead | Design, build, and fly model aircraft from scratch. Compete in a yearly national competition.

INTERESTS

Embedded Systems
Aircraft
Networking
Automation

Web Development
Aviation
Engines
Swedish cars