

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

SKILLS

PROGRAMMING

Java • Python
LaTeX • JavaFX
C • ARM Assembly
C++ • VHDL • HTML
Bash • SQL • golang

SOFTWARE

ModelSim • AWS
Vagrant • Eclipse
Excel • Matlab • Xilinx
PyCharm/IntelliJ • Linux

HARDWARE

Raspberry Pi • Arduino
ARM mbed • FPGA
IC Logic Circuit Design
microcontrollers

OBJECTIVE

To apply knowledge of Computer Engineering and gain experience through co-op employment. Available April-July 2018 and January-August 2019

WORK EXPERIENCE

AUTO/MATE | SOFTWARE ENGINEERING INTERN

May 2017 – August 2017 | Colonie, NY

- Object-oriented programming (Java)
- Collaborate with cross-functional teams to solve complex problems
- Research and evaluate new technologies to update current stack
- Balance multiple projects at one time

TEACHING ASSISTANT | ENGINEERING FUNDAMENTALS OF COMPUTER SYSTEMS ASSEMBLY LANGUAGE PROGRAMMING

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

BREWMATE | GOLANG WEB APPLICATION

February 2018 – Present

A coffee store management web application built with Go.

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.

EXTRACURRICULARS

Aero Design Team

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

INTERESTS

Embedded Systems
Microcomputing
Aviation
Digital IC Design
Rowing
Mobile Applications

Web Development
RC Planes
Software Design
Small Engines
Home automation
Swedish cars