

# 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  
Digital Signal Processing  
Computer Architecture  
Interface & Digital Electronics

## SKILLS

### PROGRAMMING

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

### 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

Full-time employment opportunities in cyber security and related fields. Available May 2020.

## WORK EXPERIENCE

### ICR | COMPUTER ENGINEERING CO-OP

January 2019 – Present | Cincinnati, OH

- Worked on projects involving Python, C, Node.js, comp. networking, DSP, and protocol analysis
- Worked independently on open-ended self-driven tasks
- Balance multiple projects at one time

### 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 | VARIOUS COMPUTER ENGINEERING CLASSES

Spring 2017 – Current | Rochester, NY

- Introduction of embedded systems for younger students. Taught using NXP microcontrollers and other bare-metal boards

## PERSONAL PROJECTS

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

September 2018 - Present

### EPA (EFFICIENT PARKING APPLICATION) | OPENCV PROJECT

February 2017 – Present

## EXTRACURRICULAR

Aero Design Team

Electronics Lead | Design, build, and fly scaled aircraft from scratch in a competitive environment

## INTERESTS

Embedded Systems  
Aircraft  
Networking  
Automation

Web Development  
Aviation  
Engines  
Swedish cars