

Michael Baumgarten

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EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

BACHELOR OF SCIENCE IN
COMPUTER ENGINEERING
Expected May 2020
Dept. GPA: 3.73

LINKS

Github:// [mbaum0193](#)
LinkedIn:// [michaelpbaumgarten](#)

COURSEWORK

Computer Science
Digital System Design
Assembly Language Programming
Computer Architecture
Circuits & Electronics
Digital Signal Processing
Computer Architecture
Interface & Digital Electronics
Digital IC Design
Real Time & Embedded OS

SKILLS

PROGRAMMING

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

SOFTWARE

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

HARDWARE

Raspberry Pi • Arduino
Embedded Sys. • FPGA
IC Design • ESP8266
PCB Design

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
- Worked with customers to create end product

PARSONS | COMPUTER ENGINEERING CO-OP

January 2018 – July 2018 | Centreville, VA

- Object-oriented programming (Java), vm/container provisioning/deployment
- Collaborated with cross-functional teams to solve complex problems
- Experience working in secure environment

AUTO/MATE | SOFTWARE ENGINEERING INTERN

May 2017 – August 2017 | Colonie, NY

- Object-oriented programming (Java)
- 3rd-party API integration work
- AWS Tools, CloudFormation, 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

SPOTTR | OPENCV/MMWAVE PARKING LOT MONITORING SUITE

February 2017 – Present

EXTRACURRICULAR

Aero Design Team

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

INTERESTS

Aircraft/Avionics
Embedded Systems
Networking
Automation

Guitar/Piano/Synthesizers
Web Development
Engines
Swedish cars