Michael Baumgarten

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EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

Bachelor of Science in Computer Engineering
Expected May 2020 | Rochester, NY

LINKS

Github:// **mbaum0193**
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 related to computer engineering Available May 2020.

WORK EXPERIENCE

ICR | Computer Engineering Co-Op
January 2019 – Present | Cincinnati, OH

- Worked on projects involving Python, C, nodejs, comp. networking, DSP, and protocol analysis
- Worked independently on open-ended self-driven tasks
- Designed an end product based on customer requirements

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
- Balanced 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