

Barak Binyamin

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OBJECTIVE

Seeking a full time co-op/internship for the summer of 2023. I have an interest in learning new technologies, and gaining valuable experience in the workforce.

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY

Bachelor of Science in Computer Engineering, expected May 2024

GPA: 3.5/4.00

Awards: Dean's List Fall 2019

Courses:

Introduction to Computer Eng.	Digital System Design I, II	Computer Organization
Computer Architecture	Interface & Digital Electronics (CE)	Introduction to Software Eng.
Computer Science I, II	Assembly and Embedded Prog.	Applied Programming in C
University Physics I, II	Digital Electronics (EE)	Digital Signal Processing
Circuits I & II	Differential Equations	Linear Algebra
Discrete math	Probability & Statistics	Principles of Microeconomics
Rhetoric and Deliberation		

SKILLS

Programming Languages: Bash, Batch, Javascript, Python, C & C ++, Swift, VBA, VHDL

Operating Systems: Linux, Mac OS X, Windows

Software: Altera Quartus, ModelSim, Xilinx Vivado, EDA Playground | AutoDesk Inventor, Fusion 360 | Microsoft Office | Vue | Nodejs | Docker, Harbor & Rancher | Git | Ghidra | Jira & Agile Development Practices

Hardware: Oscilloscope, Digital Multimeter, Waveform Generator

EXPERIENCE

Innov. Ecosystem & Emerging Tech, Unisys Bluebell, PA (Remote) Summer '22 - Winter '22
Ecosystem and Emerging Tech. Intern - Developed tools to index unstructured & semi-structured data. Built and deployed a system for which the team and internal business units could use to track business relationships. Researched regulatory technology, aided team members by automating tasks

Cyber Division, Systems Tech. & Research Woburn, MA Summer '21 - Winter '21
Cyber Intern/Co-op - Developed radar signal analysis tools. Researched Arm Coresight & exploitation over JTAG. Built and deployed a full stack information system for managing company equipment, documentation, and hardware resources | TS clearance - expired 2022

Computer Engineering, RIT Rochester, NY Fall '20 - Winter '20
Teaching Assistant / Mentor for 100 students - Answered questions of students, gave advice in lab sessions for Introduction to Computer Engineering, and gave advice for navigating the major

DM Properties, Rochester, NY Fall '19 - Fall '21
Residential Property Manager and Advertiser - Found tenants through advertising, created and maintained a website, coordinated with tenants, ensured maintenance of the property

PROJECTS

- **Population Count** - Developed a hardware solution to a Population-Count algorithm, written in VHDL. Testbench and documentation shared publicly at github.com
- **Ripple-Carry Full Adder** - Developed structure of a Generic Ripple-Carry Full Adder in VHDL. Testbench and documentation shared publicly at github.com
- **Wireless LED Display** - Utilized Gatt communications protocols to control a 5X5 LED Display Walkthrough, documentation, and hardware schematics shared publicly at github.com
- **TrackSplit400** - Worked in a two person team to develop an iphone application to be used as a goal setting tool. Athletes mark their split times, and the app shows their projected race time in real-time
- **Realtime-Database Tutorial** - A tutorial that lays out the basics to using Google's Firebase real-time-database API for a web-app, shared publicly at github.com
- **Touchtype** - Worked in a two person team to develop a proof of concept educational game with leaderboard utilizing HTML, CSS, & JavaScript, the game is free to play at TouchType

ACTIVITIES / INTERESTS

Running, Swimming, Hiking, & Learning