

Barak Binyamin

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OBJECTIVE

Seeking a full time co-op/internship for the fall of 2022. 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	Introduction to Software Eng.
Computer Science I, II	Assembly and Embedded Prog.	Applied Programming in C
Digital Electronics	Applied Programming in C	Computer Organization
Circuits I & II	Calc I,II,III	University Physics I, II
Differential Equations	Linear Algebra	Discrete math
Principles of Microeconomics	Rhetoric and Deliberation	

SKILLS

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

Operating Systems: Linux, Mac OS X, Windows

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

Hardware: Oscilloscope, Digital Multimeter, Waveform Generator

EXPERIENCE

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.

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

Vitales Rochester Italian Restaurant, Rochester, NY Fall '19 - Spring '20
Social Media Manager - Maintained social media accounts, advertised, and updated restaurant information through google My-Business

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](https://TouchType.com)

ACTIVITIES / INTERESTS

Running, Swimming, Hiking, & Learning