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Rochester, New York

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# Blizzard Finnegan

Computer Engineering Technology Student

GitHub: BlizzardFinnegan

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Seeking co-op in firmware and software development. Available May - Dec. 2022

## SKILLS

|                            |   |
|----------------------------|---|
| <b>Tools and Languages</b> | Java, VHDL, C/C++, ZSH/BASH   |
| <b>Software</b>            | LaTeX, git, MATLAB, Linux, ModelSim, MultiSim, Altera Quartus, Microsoft Excel              |
| <b>Hardware</b>            | Soldering Iron, Oscilloscope, Digital multimeter, FPGAs, Signal/function generator, Arduino |

## PROJECTS

### Guesture-Controlled Motor System

Dec. 2021 - Current

*Series of coding challenges hosted online; written in both C++ and Java*

- Manual implementation of Dijkstra's algorithm
- Plaintext file parsing
- Extensive Stack, Queue, and ArrayList Use

### Binary Search Tree

Feb. 2022

*Implement a Binary Search Tree in Java*

- Built based off of a given UML diagram
- Includes `infixTraversal()`, `binarySearch()`
- Easily sortable using `Collections.sort()`

### ArchLinux Ease-Of-Use Scripts

April 2020 — Spring 2021

*ZSH/BASH scripts built to improve stability of ArchLinux*

- Automated installation of ArchLinux
- Restricted update windows for greater stability
- Streamlined git repo updates

### Encryption Key Generator

March 2020

*VHDL design to create and transmit an encryption key, given an 8-bit value*

- Using Altera Cyclone V FPGA
- Extensive use of Quartus and Modelsim
- Implemented feedback from fellow students

## EDUCATION

### Rochester Institute of Technology

Aug. 2018 - Aug. 2024

*B.S. in Computer Engineering Technology; GPA = 3.37/4.00*

## WORK EXPERIENCE

### Laboratory Technician (Summer Positon)

June 2017 — Aug. 2018

*MACOM Technology Solutions*

*Horseheads, NY*

- Operated scanning laser microscope measurement system to assess failures and improve yield
- Compiled acquired data, and generated visualizations using Excel for ease of understanding
- Established and assisted in writing standard operating procedure for the scanning laser microscope

### Student Worker

Sept. 2020 — Jan. 2021, Sept. 2021 — Present

*Salsarita's Mexican Grill*

*Henrietta, NY*

- Maintained safe work environment for staff and customers
- Regularly interfaced with customers for all parts of the order-handling process
- Managed inventory according to First In, First Out procedures