Blizzard Finnegan

(607) 738-5933
Rochester, New York
BlizzardFinnegan@gmail.com

Computer Engineering Technology Student

GitHub: BlizzardFinnegan
LinkedIn: BlizzardFinnegan

Seeking co-op in firmware and software development. Available Jan. - June 2023

Skills

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

Projects

Advent of Code 2021 — 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