BLIZZARD FINNEGAN

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

SKILLS

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, Scanning laser microscope, Scanning Electron Microscope

PROJECTS

Advent of Code 2021   Dec. 2021 - Current
Series of coding challenges hosted online; written both in C++ and Java

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

Binary Search Tree   February 2022
Implement a Binary Search Tree, built in Java

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

Arch Linux Livability Scripts   April 2020 - Spring 2021
ZSH/BASH scripts built to improve stability of Arch Linux

- 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 - MACOM Technology Solutions   June 2017 - Aug. 2018
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 - Salsarita's Mexican Grill   Sept. 2020 - Jan. 2021, Sept. 2021 - Current
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