Blizzard Finnegan

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Computer Engineering Technology Student

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

Skills

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

Projects

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

Guesture-Controlled Motor System   **May 2019**
C program written to control a motorized robot, given a gyroscopic input

- Using ATMEL328 Arduino platform
- Extensive use of `I2C` protocol
- Used project management skills

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