BLIZZARD FINNEGAN

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

EDUCATION

Rochester Institute of Technology   Aug. 2018 - Aug. 2024

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

SKILLS

Languages	Java, C++, Arduino, ZSH/BASH, VHDL
Software	LaTeX, Git, MATLAB, Linux, ModelSim, MultiSim, Altera Quartus, Microsoft Excel
Hardware	Soldering iron, Oscilloscope, Digital multimeter, FPGAs, Signal/function generator Scanning laser microscope, Scanning Electron Microscope

PROJECTS

Manual Stack Implementation   February 2022

Create a custom Stack implementation

- Built in Java
- Built based off of a given UML diagram
- Includes iterability

Arch Linux Livability Scripts   April 2020 - Spring 2021

ZSH/BASH scripts built to improve stability of Arch Linux

- Update Restriction Script
- Arch Linux Install Automation Script
- Git Update Automation Script

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

Gesture-Controlled Motor System   May 2019

C designed program to control a motor, given a gyroscopic input

- Using ATMEL328 Arduino platform
- Extensive use of `I2C` protocol

WORK EXPERIENCE

Laboratory Technician MACOM Technology Solutions   June 2017-Aug.2018

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

Student Worker Salsarita's Mexican Grill   Sept.2020-Jan.2021, Sept.2021-Current

- Followed all standard operating procedures for food service
- Regularly interfaced with customers for all parts of the order-handling process
- Managed inventory according to First In, First Out procedures