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Blizzard Finnegan

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Seeking co-op in firmware and software development. Available May - Dec. 2023

SKILLS

Tools and Languages	Rust, C/C++, Java, VHDL, ZSH/BASH
Software	L ^A T _E X, git, Linux, ModelSim, MultiSim, Altera Quartus, MATLAB, Microsoft Excel
Hardware	Soldering Iron, Oscilloscope, Digital multimeter, FPGAs, Signal/function generator

PROJECTS

Freelance Server Management Aug. 2022 - Current

Management of an array of services, including public presence and documentation

- Ensures integration into pre-existing workflows with minimal disruption or downtime
- Management of Docker containers, Samba fileshare, hardware and software RAID arrays, and network stack
- Budget and acquire new hardware according to needs
- Implements user-friendly, intuitive tools with minimal learning curves

Advent of Code 2021 Dec. 2021

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()`

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

EDUCATION

Rochester Institute of Technology Aug. 2018 — Aug. 2025

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

WORK EXPERIENCE

Research and Delopment Intern Jan. 2023 — Aug. 2023

Baxter International

Auburn, NY

- Overhauled multiple automated test fixtures' software for ease of use
- Provided general assistance with the use of embedded Linux systems
- Began the process of porting proprietary communication protocol to Linux

Assistant Systems Administrator June 2022 — Dec. 2022

RIT, Information & Technology Services

Henrietta, NY

- Maintained and repaired a wide range of client devices
- Regularly interfaced with customers for identifying and resolving issues
- Maintained compatibility and security updates across several platforms