# Thomas Johnson

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## **EDUCATION**

University of Virginia

Delbarton School

Charlottesville, VA

B.S. Computer Engineering, Engineering Business Minor

August 2021 - May 2025

3.5 GPA, Graduated with Distinction

Morristown, NJ

Headmaster's List, Highest Honors, First Team All-State Skiing

August 2017 - May 2021

EXPERIENCE

University of Virginia

Charlottesville, VA

Teaching Assistant, Computer Architecture

 $Spring \ 2025$ 

Teaching Assistant, Intro to Embedded Systems

Spring & Fall 2024

- Assisted during in class workshops of at least 50 students and led office hours outside of class.
- Graded assignments and collaborated with professor to improve class' efficiency and effectiveness

Johnson & Johnson

Enterprise Contract Management, Contract Solutions Interpr

Raritan / Piscataway, NJ

Enterprise Contract Management, Contract Solutions Intern

Summers 2021-2024

- Optimized ECM's digital database for auditors to locate files through intra document search
- Built automation solutions, including a web app that automatically processed the change request system for an ECM database that the team now uses as a template
- Developed a web portal with integrated automation and analytics through a user experience focused strategy. Researched and developed a framework for finance training for global employees

# University of Virginia, High Performance Low Power Lab

Charlottesville, VA

Undergraduate Research Assistant

September 2022 - April 2023

- Tested RFID antennas and sensors to harvest energy for low maintenance sensors.
- Employed test-driven development for different components and circuit board layouts

## **PROJECTS**

Flyby | Python, CSS, HTML

July 2025 – Present

- Built real-time aircraft detection plugin for Raspberry Pi e-ink display using OpenSky API
- Integrated flight data visualization with web configuration interface

# ECE Capstone $\mid C, Assembly$

August 2024 – December 2024

- Designed swept-volume holographic display using multi-board hardware system with STM32 microcontroller, custom 16x16 LED matrix PCB, and integrated power supply
- Built preprocessing pipeline converting 3D cave files into optimized polar coordinate data for real-time display
- Implemented RTOS-based firmware for precise LED timing control, file navigation, and user interface management

#### Leadership

## Virginia Alpine Ski & Snowboard Team

Charlottesville, VA

Men's Ski Captain

April 2024 - March 2025

- Executive board member managing operations for 350-member recreational club and 60-member competitive team
- Organized and led training programs, competitive races, fundraising events, and community outreach initiatives

Alpine Chair April 2023 - March 2024

- Coached diverse skill levels from first-time skiers to experienced racers in alpine technique and racing strategy
- Collaborated with club leadership to organize ski trips, social events, and recruitment activities

# TECHNICAL SKILLS

Languages: C/C++, Java, Python, Assembly, Bash, Verilog, VHDL, MATLAB, Rust, SQL

Developer Tools: Git, Docker, Linux, RTOS, Quartus, Multisim, Ultiboard, Cadence Virtuoso, Solidworks

Hardware: STM / TI boards, Arduino, PCB design, I2C, SPI