Josh Blinn
Computer Engineering Student

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SUMMARY OF QUALIFICATIONS

- Fourth year computer engineering student at the University of Ottawa.
- Project management skills and experience working in a team environment.
- Technical skills in a multitude of engineering related applications.
- Fluent in English and French

EDUCATION

University of Ottawa, Ottawa | *Bachelors of applied science, Computer Engineering* **2021-2025**
- Cumulative GPA: 3.8/4.0
- Related Coursework: Computer Architecture, Microcontrolers, Software Engineering, etc.
- Expected Graduation: May 2025

EXPERIENCE

uOttawa Rocketry **Ottawa, Ontario**
Hardware/Software Section *Sept 2024 - Present*
- Engineered an Antenna Tracker for real-time rocket tracking during flight.
- Decoded real-time telemetry data, including GPS, altitude, and velocity, using serial communication.
- Utilized DC motor systems for dynamic antenna positioning.
- Implemented the solution on a Raspberry Pi running ROS2

East Coast Wilderness **Shediac, New Brunswick**
Retail Salesworker (seasonal) *May 2022 - Aug 2024*
- Assisted customers with product selection and purchases.
- In charge of store opening and closing.

PROJECTS

LTE Controlled Delivery Bot | *github.com/UOttawa-Rapid* 2024
- An LTE controlled bot using a website.
- Implemented using React, WebRTC, ROS2, Raspberry Pi
- Worked on the embedded system section of the project.

32bit Mips Processor | *github.com/LeBlinn/CEG3156Lab3* 2024
- Using Quartus in VHDL using structural language only.
- Implemented a 5 stage pipeline in order to optimize CPU usage by 3x.

Personal Website | *blinn.dev* 2024
- Made using ReactJS
- Hosted using Docker and Nginx on a home server.
- Used as a portfolio for my projects.

SKILLS

Programming Languages and Frameworks
- Python - C/C++ - C# - Java - MATLAB - Bash - JS - React - Svelte

Tools and Databases
- Linux - Git - Nginx - Qemu/KVM - Docker - Firebase - Firestore - SQL

Microcontrollers/Microprocessors
- Arduino - Raspberry Pi - STM32 - ROS2 - UART - I2C - SPI

Digital Systems Design
- CISC/RISC Architecture - Synchronous/Asynchronous logic design - I/O Systems

FPGA Design
- VHDL/Verilog - Quartus II - Vivado

Electrical Skills
- Oscilloscope - Soldering - Circuit Design - PCB Design