

# Josh Blinn

Computer Engineering Student

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GitHub: [github.com/LeBlinn](https://github.com/LeBlinn)

## SUMMARY OF QUALIFICATIONS

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- 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

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### University of Ottawa, Ottawa | *Bachelors of applied science, Computer Engineering* 2021-2025

- Cumulative GPA: 3.8/4.0
- Related Coursework: Computer Architecture, Microcontrollers, Software Engineering, etc.
- Expected Graduation: May 2025

## EXPERIENCE

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### 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 Robot Operating System

### 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

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### LTE Controlled Delivery Bot | [github.com/UOttawa-Rapid](https://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](https://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](https://blinn.dev)

2024

- Made using ReactJS
- Hosted using Docker and Nginx on a home server.
- Used as a portfolio for my projects.

## SKILLS

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### Programming Languages and Frameworks

- Python - C/C++ - Rust - 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