

Cameron Beneteau

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SUMMARY

Mechatronics Engineering and Management student at McMaster University, graduating in 2025. 2 years of Software Development internship experience with skills in **Full Stack Development**, **CI/CD Pipelines**, **Distributed Systems**, and hardware experience in **Embedded Systems**, **RTOS**, and **Microcontrollers**. Committed to driving innovation and adding value to the end goal with a **proven ability to translate business needs into attainable technical objectives**.

SKILLS

Programming: C++/C/C#, Python, MATLAB (Simulink), Verilog, Java, JavaScript, TypeScript, SQL, HTML/CSS, Bash

Tools: Angular, React, Amazon Web Services (S3, DynamoDB), OpenAPI, Nodejs, MongoDB, Docker, Terraform, Selenium, Jest, Linux,

Software Concepts: Full Stack Development, Cloud Computing, Databases, Distributed Systems, Data Structures, Algorithms, Object-Oriented Programming

Hardware: STM32 MCU, Cyclone V (SoC FPGA), Arduino, Raspberry Pi, Analog & Digital Circuits, Intel Quartus Prime

Hardware Concepts: Real-Time Embedded Control Systems, RTOS, Microcontrollers, ASIC Design, DSP, HW/SW Codesign, Integration, Verification, Testing

EXPERIENCE

Software Developer Intern

Caseware

September 2022 - August 2023, Toronto, ON

- Owned development of a feature flag library with Angular, NestJS, and DynamoDB, allowing developers to **seamlessly toggle software features**, improving **deployment flexibility**, and **mitigating risks** with downtime, outages, and on-call bug fixing.
- Created streamlined Windows and Mac setup scripts for local developer environments, **reducing onboarding time by 99%**.
- Reduced pipeline wait times from **10 minutes to 10 seconds**, cutting GitHub runner costs and boosting developer productivity.
- Built, tested, and debugged new UI library components with accessibility support, **improving usability and compliance**.

Software Developer Intern

Royal Bank of Canada (RBC)

May 2022 - August 2022, Toronto, ON

- Won **1st place in an intern algorithmic trading competition** using Python and Backtrader by creating a winning algorithm and presentation.
- Enhanced full stack features using JavaScript and jQuery, **growing website engagement to over 60,000 page views daily**.
- Modified back-end processes, resulting in a **50% reduction in time** spent on publishing tasks for authors and developers.
- Developed front-end web components using HTML, CSS, and Bootstrap, **improving website performance and user experience**.

Software Developer Intern

CenterLine (Windsor) Limited

May 2021 - August 2021, Windsor, ON

- Revamped ordering application using React and TypeScript, improving **efficiency and scalability for over 1000 orders daily**.
- Optimized back-end queue processes** using SQL and Visual Basic, decreasing user wait times from **hours to seconds**.
- Engineered REST APIs to extract data in an efficient manner, **improving user experience and data visualization techniques**.

PROJECTS

Automated Lead Generation Tool

Personal Project • <https://www.linkedin.com/company/profinder-automation> • May 2021 - Present

- Created a Python and Selenium tool automating outreach and lead generation of LinkedIn professionals, **totaling over 10,000 proposal submissions**, **daily time savings of 2 hours**, and **\$XX,XXX in generated client revenue**.
- Integrated AWS DynamoDB, EC2, and CloudWatch to **drive scalability**, **optimize performance**, and **streamline monitoring**.
- Translated client feedback into tangible enhancements**, including improved analytics, personalized messages, and refined filters.

Automated Line Following Robot

Vincent Massey Secondary School • <https://github.com/cameronbeneteau/line-following-robot> • January 2019 - July 2019

- Autonomous real-time embedded system** using an Arduino Uno microcontroller and various sensors designed to follow a black line.
- Designed and implemented C++ **control algorithms that interfaced with hardware sensors** (Ultrasonic, QTR, Servo) to control the vehicle.

LEADERSHIP

Project Manager

McMaster University • McMaster Rocketry Team • September 2021 - April 2022

- Oversaw engineering of the **first successful high-powered rocket launch in McMaster University history**.
- Led efforts of 50+ team members across 6 sub-teams, facilitating project integration and **prompt resolution of challenges**.
- Managed \$XX,XXX budget**, designed timelines, and oversaw manufacturing, ensuring rocket completion for 2 launch competitions.

Attendee Relations Executive

McMaster University • DeltaHacks Hackathon • September 2020 - April 2021

- Evaluated over 200 applications** and curated a dynamic 2-day schedule, including diverse activities for 800+ attendees.
- Managed Discord setup and coordination of over 25 workshops, 5 meetups, 10 activities, and 10 virtual judging rooms.

EDUCATION

Mechatronics Engineering & Management (B.Eng. Management)

McMaster University • Hamilton, ON • 2025 • 4.0