

Costandina Saab

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EDUCATION

McGill University | B.Eng. Electrical Engineering

Dec 2029

Honors and Awards: J.W. McConnell Scholarship and Community Leadership Entrance Award

John Abbott College | Science DEC | GPA: 4.0

May 2026

Coursework: Calculus 1-2, Statistics, Intro. to programming, Linear algebra 1, Mechanics, Waves and optics, Electricity and Magnetism

EXPERIENCE

MCommercial | *Administrative Assistant and Web Developer*

August 2020 - Present

- Replaced the company's Wix website with a full-stack platform, independently taking ownership of the project beyond my administrative role.
- Built the production site using Next.js, React, TypeScript, Tailwind CSS, and Supabase, translating business needs into a maintainable web application.
- Increased website traffic by 35% and received additional compensation for the project.
- Managed financial records, bookkeeping, data entry, and confidential documentation alongside administrative work.

Collège Beaubois | *Tech Squad Leader*

August 2019 - June 2024

- Led a 10-member technical team supporting a community of 1,500+ students and faculty, coordinating technical tasks and troubleshooting workflows.
- Designed Python, Scratch and micro:bit programming activities planned for a cohort of ~120 students, introducing foundational programming and computational thinking to younger students.
- Resolved 50+ hardware and software issues involving iPads, laptops, smartboards, and classroom technology.
- Created technical tutorials for the school's YouTube channel, with one video reaching 5,500+ views.

PROJECTS

Henry Jr. - Remote Controlled Companion

- Designed and prototyped a four-wheel mobile robot using an ESP32, integrating motors, onshapeCAD design, electronics, and embedded software into a functional robotic platform.
- Programmed Wi-Fi communication in Arduino IDE (C++) to translate iPad commands into real-time forward, reverse, and turning movements.

1 x 3 m Self-sustainable Garden

- Designed and built a 1 x 3 m automated garden used by ~10 students and faculty, integrating Arduino-based hardware for autonomous plant monitoring and maintenance.
- Implemented soil-moisture sensors and an internal clock to monitor plant conditions and automate watering schedules.
- Integrated sensors, control logic, and actuators to create a self-sustaining environmental control system.

BuildWith - Full-Stack Web Application

buildwith.littlerayofdina.com

- Developed a full-stack platform from scratch to connect students with projects, competitions, and potential teammates.
- Built the application with Next.js, React, TypeScript, Tailwind CSS, and Supabase, implementing authentication, database integration, role management, and dynamic project pages.
- Designed the application architecture to support multiple user profiles, projects, roles, and opportunities while maintaining a scalable database structure.

TECHNICAL SKILLS

Programming & Development: Python, C/C++, JavaScript, TypeScript, postgresSQL, HTML/CSS, Git, GitHub, Arduino IDE

Web & Software: Next.js, React, Tailwind CSS, Supabase, PostgreSQL, Microsoft Excel

Embedded Systems & Hardware: ESP32, Raspberry Pi, Arduino, Embedded Systems, Sensors, Motor Control, OnshapeCAD

Soft skills: quick learner, collaborative, approachable, reliable, open to feedback