

# Rohan Jamal

REDACTED PHONE | [rohanjamal@icloud.com](mailto:rohanjamal@icloud.com) | <https://www.linkedin.com/in/rohanjamal/>  
<https://rohanjamal.ca>

## EDUCATION

---

**McGill University** **August 2025 - May 2029 (expected)**  
*Bachelor of Engineering; 4.00 GPA* *Montreal, QC*

- Relevant Coursework: Intermediate Calculus, Ordinary Differential Equations for Engineers, Physics: Electromagnetism and Optics

## EXPERIENCE

---

**Avionics Flight Computer Hardware Sub-Team Lead** **February 2026 – Present**  
*McGill Rocket Team* *Montreal, QC*

- Coordinated manufacturing of printed circuit boards and task allocation for general members
- Ensured weekly technical deliverables set by avionics lead were fulfilled by our team of ~20 members

**Avionics and Ignition General Member** **August 2025 – February 2026**  
*McGill Rocket Team* *Montreal, QC*

- Used CAD software to design parts and moulds for the team's rocket ignition system
- Performed surface mount soldering of small components and extensively tested the flight computer PCB

**Technical Advisor (TA)** **September 2024 – May 2025**  
*Royal Saint George's College Advanced Computer Engineering School (RSGC ACES)* *Toronto, ON*

- Provided mentorship and technical guidance to younger students in a computer science course, supporting both course-related and independent projects relating to both hardware and software concepts
- Explained complex concepts in computer science and electronics, including op-amps, Arduino, raspberry pi and C++, fostering a deeper understanding and confidence in students' technical abilities

**Summer Research Assistant** **June 2024 – September 2024**  
*Neera Singal Medical Corporation* *Toronto, ON*

- Developed and maintained a clinical database of surgical outcomes for a research study

## PERSONAL PROJECTS

---

**Self-Hosted Personal Services** **2025**

- Setup and continue to maintain a headless Linux personal webserver including backup, DNS, and media
- Wrote scripts for automation, compiled software, and implemented a firewall for internet-exposed services
- Configured a reverse proxy in Nginx to handle multiple frontend and backend services

**Pressure Washer Go Kart** **2025**

- Modified a riding lawn mower into a high-speed go kart using the engine from a broken pressure washer
- Developed hands-on skills in mechanical design, troubleshooting and project management
- Integrated off-the-shelf parts to create a functional, mobile vehicle

**8-Bit Semi Portable Audio Player** **2025**

- Used electrical resistance and voltage relationships to build an audio-playing device using low-level code
- Built and drove an R2R DAC with music from an SD card using register and assembly-level Arduino code
- Integrated into a small, handheld device using a custom PCB and surface mounted components

**4-Bit Harvard Architecture Computer** **2024**

- Built a fully functioning 4-bit Harvard Architecture computer on a breadboard from a pre-existing design
- Adapted the original design to run on an 8-bit architecture; increased clock speed; added PWM functionality
- Learned the basics of the Harvard Architecture and how computers perform basic tasks such as fetching and writing data from memory, performing arithmetic and logic operations, and conducting I/O actions.

## TECHNICAL SKILLS

---

Arduino/C++, Linux (self-hosting, Docker, Nginx, Kubernetes), SMT soldering, hand soldering, PCB design, CAD