**Contact Details**

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**Summary**

A dynamic, self-driven aspiring Mechanical and Electrical Engineer with more than 6 years of experience in 3D design, embedded systems, computational systems, software development, web development, and leadership. I am skilled in designing, building, and programming innovative engineering projects, with a strong leadership and teamwork skills. I am detail-oriented with excellent organization and technical skills, and a highly motivated self-starter with a proven work ethic reflecting in superior results and achievements.

**Experience**

Model Rockets and Planes | Independent Project | 2017-Present

* Designed, built, and launched five 3D-printed model rockets.
* Designed, built, and flew three 3D-printed RC planes.

FIRST Lego League Robotics Competition | Head Programmer & Team Leader | 2023, 2024

* Led and managed teams of eight members in two competitions.
* Designed and programmed interface structures and objectives for competition robots.
* Developed software and optimized autonomous navigation algorithms.

Trebuchet | Academic Project | 2025

* Worked with a partner to create a life-sized trebuchet
* Applied woodworking skills and structural analysis to ensure proper function

Guided Anti-Drone Missile | Independent Project | 2025

* Designed and built a custom flight computer for GPS and IMU sensor fusion navigation.
* Developed real-time guidance algorithms in C++
* Implemented data logging and telemetry for system performance analysis.

**Skills**

Engineering and Programming

* KiCad, Fusion 360, OpenRocket, Arduino IDE
* Proficient in Python, C and C++, HTML, CSS, JavaScript, PHP
* PCB and circuit design, breadboard prototyping, soldering
* Woodworking

IT and Tech

* PC Building, self-hosting, home servers
* Expert in Windows and proficient in Linux
* Excellent technology problem-solving skills

Communications and Teamwork

* Fluent in English, conversational in Brazilian Portuguese
* Basic understanding of French
* Strong Teamwork and Collaboration skills

Documentation and Productivity

* Proficient in Microsoft Word and PowerPoint
* Expert with Google Calendar

Other Skills

* Expert Drone Pilot
* Strong math skills
* Video editing and production

**Interests**

* Engineering
* Programming
* 3D-Printing
* Cinematography and Video Editing
* Mathematics and Physics
* Challenging myself with new skills

**Education**

**Elementary School**

Collingwood, Ontario

Graduating 07/2025

**Achievements**

* Two-time 3rd place and one-time 2nd place winner at the County Science Fair
* Designed and developed a Guided Anti-Drone Missile
* Two-time competitor in FIRST Lego League Robotics Competition
* Designed and built my own website