Nicholas Fortune

Ontario, Canada   nicholasfortune.contact@gmail.com | nicholasfortune.ca

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.

Education

Elementary School
Ontario, Canada
Graduating 07/2025

Interests

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

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

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