Nicholas Fortune

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