Daniel Bozz

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Objective: Seeking an entry-level engineering position where I can apply my mechanical design, fabrication, and robotics skills to contribute to innovative projects

Highlights of Skills & Qualifications

- Proficient in SolidWorks, and Onshape for mechanical design and tooling documentation
- Hands-on experience with CNC machining, 3D printing, and manual metalworking for fixture and prototype fabrication
- Embedded systems integration using modular microcontroller setups for robotics and automation projects
- Strong documentation and layout optimization skills applied in technical reports, improving project clarity
- Collaborated on Ontario Tech's Ri3D robotics challenge, producing a functional robot in 72 hours
- Effective communication and adaptability developed through teaching piano and customer-facing roles

Education

Bachelor of Engineering – Mechatronics Engineering (Co-op) Expected Graduation: 2028
Ontario Tech University, Oshawa, ON

- Relevant Academic Courses: CAD & Manufacturing, Embedded Systems, Robotics & Automation, Systems Engineering

Project or Lab Experience

Ri3D Robotics Challenge Jan 2025
Ontario Tech University
Technology used: SolidWorks, CNC, 3D Printing

- Applied CAD and fabrication skills in a team to build a competition-ready robot in 72 hours
- Applied CAD and manufacturing skills under time constraints
- Resulted in a fully functional robot meeting FIRST Robotics standards

FPV Drone Development (Currently working towards advanced operations license) ongoing
Technology used: Solidworks, 3D Printing, Flight Controller Software (Ardupilot with Mission Planner)

- Built and configured a custom UAV (15x7.5 props) running a 12s 120C 10000mAh propulsion system with a separate avionics supply
- Conducted interative testing and ArduPilot tuning to improve stability and control

- Enhanced structural modularity and reliability through mechanical redesign and rapid prototyping
- Implemented high-voltage power distribution and failsafe logic to support reliable autonomous operation

BattleBot Construction 2023
Personal Project
Technology used: CAD, Additive Manufacturing

- Designed and fabricated a BattleBot chassis, enhancing structure and remote control integration
- Integrated remote control systems and reinforced chassis structure
- Evaluated performance and implemented iterative improvements

Work Experience

Substitute Piano Teacher 2024
Ivory Melodies, Hamilton, ON

- Provided personalized piano instruction, maintaining student engagement and lesson progress
- Adapted lesson plans to individual learning styles
- Received positive feedback from students and parents

Customer Service Associate 2023
Food Basics, Hamilton, ON

- Handled customer orders and resolved issues, ensuring customer satisfaction during peak hours
- Maintained professionalism during peak hours
- Supported team operations and contributed to seasonal success

Volunteer / Extracurriculars

Designer & Fabricator 2020–2023
Bishop Ryan Robotics Team

- Led design and fabrication for competition robots, supporting drive team strategy
- Supported drive team strategy and qualified for World Championship

Event Volunteer 2022
STEMley Cup Robotics Tournament

- Supported event setup, team coordination, and match logistics for smooth operation
- Ensured smooth operation and supported visiting teams