Liam Buckman

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Relevant Skills:

Mechanical – SolidWorks, AutoCAD, Ansys, Machining, introductory FEA, GD&T, Drafting, Detailed Drawings
Software – Basic knowledge of Python and C++, working knowledge of MS Office systems
Soft Skills – Customer Service, Problem Solving, Teamwork, Leadership

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Experience:

UW Formula Electric – Aerodynamics Sub-team Waterloo, ON. September 2024-Present

On-Call – On-Site

- Worked in teams of three to design and manufacture an improved resin catch-pot
- Worked in teams to Manufacture carbon fiber flat panels, airfoils, and 2025 car undertray.
- Created dimensioned drawings and DXF's for mechanical inserts and airfoil spars.

Home Hardware Building Centre – Grand Bend, ON May 2020 – August 2024

Customer Service Associate – Part Time

- Provided customer service and helped customers solve a range of home maintenance problems
- Worked with truck drivers and colleagues to provide services for contractors such as material delivery and product ordering in a timely manner.
- Quoted small to medium sized jobs for contractors and walk-in customers based on their specifications

Tri-Star Taekwondo – Exeter ON January 2020 – August 2024

Volunteer Co-Head Instructor – part time

- Taught between 50-100 students Taekwondo ranging in age from 5 to 60
- Coordinated with other instructors to develop class structure, student rates, and class locations

ECO-EXETER – Exeter ON September 2023 – June 2024

Vice President – on-site

- Participated in county-wide infrastructure planning and made presentations to local governments.
- Facilitated community cleanups and worked with local businesses to become more environmental
- Recognized by municipal government for extraordinary action and featured in "Plastic People" – a documentary about microplastics in the environment that aired at TIFF.

Education:

Candidate for Mechanical Engineering – University of Waterloo, ON September 2024 – Present

- 30 + in class hours of CAD and design experience
- Experience creating detailed drawings using GD&T
- introductory simulation experience (topology, stress, thermal, fluid flow) using Ansys and SolidWorks
- Currently learning C++, Robot C, MATLAB

Relevant Projects:

Dynamometer: October 2024

- Worked in team of 4 to build dynamometer that measures torque/speed characteristics of TT motor.
- Graphed and calculated the stall torque of TT motor using Microsoft Excel.

Multi-Note Boom Whacker October 2024 – December 2024

- Worked in a team of 4 to design and manufacture several prototypes of a multi-note percussion instrument for children ages 6-12
- Completed report summarizing the design choices for the toy and the recommendations for production
- Designed and manufactured main sound control system for changing the toys pitch as it was played