

Aidan Bradley

a@aocb.ca | www.linkedin.com/in/aidanocbradley | (289) 400-3922

Current: Kingston, ON | **Permanent:** Oakville, ON

Profile

Passionate and driven third-year mechanical engineering student eager to demonstrate abilities and enhance skills in a challenging position. Interested in motorsports, metrology, keeping drivers safe, sustainable fuels, electric vehicles, and 3D printing.

Summary of Strengths

Problem Solving: Successfully used fluid mechanics and electric motor principles knowledge alongside equipment documentation to diagnose and repair equipment, such as pumps and pool heaters on site working individually

Leadership and Management: Managed retail and service teams for a swimming pool contractor during peak operation, led employees to complete tasks in a collaborative and effective manner

Initiative: Identified scheduling processes impeding performance. Brainstormed, prototyped, and implemented solutions that work in improving productivity while adding a form of parity to the process

Technical Skills: Experience with CAD (SOLIDWORKS, CATIA, AutoCAD), Microsoft Office (Word, Excel, Access), MATLAB, C++, Python, HTML, CSS, JavaScript, G-code

Communication: Native proficiency in English, elementary proficiency in German, attention to detail in communications and reports

Education

Bachelor of Applied Science, Mechanical Engineering

2020 – Candidate 2024

Queen's University, Kingston, Ontario

- Relevant courses include Digital Systems Mechatronics, Mechanical Engineering Lab I, Engineering Design & Practice, Mathematical and Computational Tools for Mechanical Engineers III, Applied Thermodynamics II
- Combine engineering concepts and problem-solving skills in mechanical and industrial design projects
- Use and program microcontrollers, actuators, servo motors, and PLCs to assemble mechatronic systems designed with block diagrams and prototyping methods

Co-op Placement

September 2019 – January 2020

Hemmera, Oakville, Ontario

- Worked independently on data entry and display for soil and core sample analysis in environmental impact assessments

Relevant Experience

Powertrain Team

September 2022 – Present

Queen's Racing Formula SAE Design Team, Queen's University, Kingston, Ontario

- Design, manufacturing, and racing of a Formula-style car in competitions
- Optimize power production and delivery while complying with SAE regulations
- Successfully implemented centrifugal turbocharger for the first time in team's history, using homemade E85 fuel and adjusting ignition timings to optimize torque

Store Supervisor

Seasonal: April to September 2020 – 2022

Total Tech Pools and Leisure, Oakville, Ontario

- Supervised and managed retail storefront, aiding up to 12 staff members as they assisted customers, aiding staff and giving advice on chemicals, equipment diagnostics, and technical instructions
- Developed online storefront during COVID-19 pandemic, processing up to 100 online orders a day averaging \$50+ an order
- Simplify workflow by developing tools for calculations and organization done previously, reducing required time and error
- Prioritised safety at every step, operating with zero injuries whilst supervising the staff and retail storefront

Team Supervisor

October 2017 – February 2020

South St. Burger, Oakville, Ontario

- Prepare food and serve customers during peak hours while managing small team to work safely and effectively

Volunteering

Ski Instructor

Seasonal: December to March 2017 – 2019

HoliMont Ski Club, Ellicottville, New York

- Teach children between ages 4 and 12 fundamentals of skiing in a group of 10 to 15 whilst ensuring safety of all students

Beaver Scout Leader

September 2017 – June 2018

7th Trafalgar Venturers and Scouts, Scouts Canada, Oakville, Ontario

Certifications

WHMIS	2021	Red Cross First Aid	2019
Hydro One Station Safety and Awareness	2019	Ontario Worker Health and Safety	2019

References are available upon request.