

# Aidan Bradley

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**Current:** 237 Division Street, Kingston, ON | **Permanent:** 9 Highland Road, Oakville, ON

## Profile

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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

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**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, G-code, metalworking, and welding

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

## Education

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### 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

### 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

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### 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

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### 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**

7<sup>th</sup> Trafalgar Venturers and Scouts, Scouts Canada, Oakville, Ontario

## Certifications

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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.**