

# OWEN MOOGK

Mechatronics Engineering Student  
at the University of Waterloo

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References Available Upon Request

## EXPERIENCE

**Formula SAE Team – Powertrain Member**      September 2022 – Present  
Working to design and build a powertrain system with the UFWM Formula SAE team. Although a new member, I have gained knowledge about powertrain systems and the design process in a racecar team.

**FIRST Robotics – Subteam Lead**      August 2018 – September 2022  
Led a subteam of robotics students using project management and teamwork skills to build a mechanism to complete a given task, whilst learning leadership skills transferrable to any workplace.

**Electric Car Team – Senior Student**      September 2021 – June 2022  
Led a subteam of students to engineer a fully electric racecar in under a year, working on drivetrain and braking systems. Achieved first place in both competitions we attended.

**Merry Hill Golf Club – Clubhouse Employee** May 2020– September 2022  
Demonstrated excellent customer service by implementing communication, responsibility, and cooperation skills. Navigated difficult situations through accountability and professionalism.

**SHAD Canada – UPEI Fellow**      July 2021  
Participated in SHAD Canada, a month-long intensive STEM program, learning about global issues, while engineering an award-winning solution focused on Canadian water problems.

## EDUCATION

**Mechatronics Engineering – University of Waterloo**      2022 – 2027  
Candidate for Bachelor of Applied Science, studying Mechatronics Engineering. Working with likeminded students building collaboration, time management, and technical skills.

## COMMUNITY ACTIVITIES

**Choose to Lead**  
Accepted into the 4-year prestigious Choose to Lead program, where I developed teamwork, cooperation, management, and leadership skills.

**FLL Team Mentor**  
Co-Founded and mentored a FIRST Lego League team, teaching engineering and teamwork skills to students. Built a framework to foster creativity, learning, cooperation, and teach the design process in the context of solving real world problems.

## SKILLS

Experience in industrial design, using SolidWorks, AutoCAD, and OnShape, designing machined and 3D printed parts.

Experience in fabrication, with machining and 3D printing tools

Experience in website development, using HTML, CSS, JavaScript, React, and Django.

Experience in customer service and leadership roles, carrying a positive attitude while demonstrating teamwork and cooperation.

Am a quick learner and am willing and able to pick up new skills in any domain.

## ACHIEVEMENTS

**AP SCHOLARS AWARD**  
Awarded the AP scholars Award for exceptional performance on Chemistry, Physics, and Economics exams, all of which I achieved a qualifying score.

**DUKE OF EDINBURGH AWARD**  
Awarded the Bronze and Silver Duke of Edinburgh's award for exceptional community service and personal growth.

**DECA**  
Achieved within the top 10% of competitors in the DECA international business competition.

**HARVARD CS50**  
Completed the Harvard CS50 computer science course, in which I learned software design principles, multiple coding languages, and applied these skills through building a full stack application.