OWEN MOOGK

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Mechatronics Engineering Student
at the University of Waterloo

References avalible upon request 📄

EXPERIENCE 💼

FORMULA SAE TEAM
September 2022 - Present

POWERTRAIN MEMBER
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
August 2018 - September 2022

SUB-TEAM LEAD
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 RACE TEAM
September 2021 - June 2022

SENIOR STUDENT
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
May 2020 - September 2022

CLUBHOUSE EMPLOYEE
Demonstrated excellent customer service by implementing communication, responsibility and cooperation skills. Navigated difficult situations through accountability and professionalism.

SHAD CANADA
July 2021

UPEI FELLOW
Participated in SHAD Canada, a month-long intensive STEM program, learning about global issues, while engineering an award-winning solution focused around Canadian water problems.

EDUCATION 🎓

MECHATRONICS ENGINEERING
September 2022 - 2027

UNIVERSITY OF WATERLOO
Candidate for Bachelors of Applied Science, studying Mechatronics Engineering. Working with likeminded students building collaboration, time management, and technical skills.

COMMUNITY ACTIVITIES 💬

CHOOSE TO LEAD
Leadership Program

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

FLL TEAM MENTOR
Mentor / Volunteer

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.

Experienced in fabrication, with machining and 3D printing tools.

Expereince 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 in the top 10% of my competitors in the DECA international business competiton.

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 fullstack application.