

mohidtahir.ca

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Mohid Tahir

Mechanical Engineering Student
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Education

BACHELOR OF APPLIED SCIENCE AND ENGINEERING

SEP 2021 – APR 2026

University of Toronto, Toronto, ON

- **Mechanical Engineering + PEY Co-op | Minor: Engineering Business**

Related coursework: Mechanical Engineering Design | Fundamentals of Computer Programming (Python)

ONTARIO SECONDARY SCHOOL DIPLOMA

SEP 2017 – JUN 2021

Meadowvale Secondary School, Mississauga, ON

Technical Skills and Qualifications

Programming: Python, MATLAB, CSS/HTML

Design and Analysis: SolidWorks, Onshape, ANSYS, PSpice, Minitab, Microsoft Office Suite

Skills: Time Management, Collaboration, Critical Analysis, Technical Documentation, Networking

Certifications/Awards: Basic Machining (George Brown), SolidWorks Associate (CWSA), Valedictorian

Professional Experience

DESIGN ENGINEERING INTERN

MAY 2023 – AUG 2023

Parts Apart | Toronto, ON

- Conducted the end-to-end development of a product, overseeing 4 stages of the product development lifecycle
- Performed extensive market research to identify and define a target niche, one that impacts 40% of the population
- Employed computer-aided design (CAD) and manufacturing processes to develop and enhance prototypes
- Collaborated closely with the company founder to transform the concept into a tangible product, costing under \$50

COMMUNICATIONS MANAGER & PROJECT TEAM MEMBER

JAN 2022 – APR 2022

Engineering Strategies and Practice II (Course) | University of Toronto

- Spearheaded the development of a design project for a prominent client, a professor seeking a device for the course: *Six Sigma for Engineers*
- Responsible for handling all communication between the client and the team, improving turnaround time by 20%
- Created documentation, encompassing conceptual designs and detailed design specifications
- Designed, created and delivered a functional 2 variable prototype, successfully presenting it to the client

Projects and Extra-Curriculars

MINIATURE PNEUMATIC ENGINE

NOV 2022 (PROJECT)

George Brown College Machining

- Learned how to use various machines such as a lathe, mill, drill press, and grinder to create a functional engine
- Gained important knowledge on efficiency of design, relating to feed rates, cutting speeds and safety

DRIVETRAIN MEMBER

SEP 2022 – PRESENT

University of Toronto Formula SAE

- Obtained valuable experience regarding mechanical and vehicle design related to optimization, component selection, and manufacturing
- Coordinated with various teams on design improvements, leading to vehicle mass reductions of over 40%

HANDMADE COFFEE TABLE AND JEWELLERY BOX

DEC 2018 (PROJECT)

Meadowvale Secondary School

- Mastered how to use machines like a band saw and belt-sander to turn a plank of wood into a project-ready piece
- Acquired real-world experience in the field of construction