

Mohid Tahir

Mechanical Engineering Candidate

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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 | Certificate: EV Design**
Related Coursework: Mechanical Engineering Design | Kinematics and Dynamics of Machines

Technical Skills and Qualifications

Software & Tools: SolidWorks, AutoCAD, Onshape, Minitab, Microsoft Office Suite

Programming & Languages: Python, MATLAB, CSS, HTML

Design & Process: DFM/DFA, FMEA, MOST, LCA, Workflow Optimization

Professional Experience

Mechanical Engineering Intern (Special Projects)

May 2024 – Aug 2025

AGS Automotive Systems | Oshawa, ON

- Designed 20+ part and process models in SolidWorks, improving manufacturing efficiency and drawing accuracy
- Updated schematic drawings in AutoCAD to ensure consistency across production projects
- Analyzed time data using the MOST Technique, achieving a 15% reduction in process times for key workflows
- Conducted quality audits on over 50 steel bundles per week, ensuring compliance with company standards
- Performed process improvement analysis in Excel, supporting workflow enhancements and data-driven decision making

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

Projects and Extra-Curriculars

All-Wheel-Drive Demonstration Platform

Sep 2025 – Dec 2025

Electric Vehicle Design (APS380) | University of Toronto

- Designed and assembled a scaled dual-motor AWD vehicle to demonstrate EV drivetrain architecture
- Integrated mechanical drivetrain components with sensing and control hardware through iterative testing

Robotic Arm Design for Rover

Sep 2023 – Dec 2023

Kinematics and Dynamics of Machines (MIE301) | University of Toronto

- Redesigned a Europa rover's robotic arm to function on Io's terrain, mounting it on a drone for aerial mobility
- Optimized link lengths using MATLAB and SolidWorks for folding arm simulations within tight drone dimensions

Communications Manager & Project Team Member

Jan 2022 – Apr 2022

Engineering Strategies and Practice II (APS112) | 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 (DMAIC)*
- Responsible for handling all communication between the client and the team, improving turnaround time by 20%

Awards & Certifications

Dean's Honours List, SolidWorks Associate (CWSA), Basic Machining (George Brown)