Mohid Tahir

Mechanical Engineering Student
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Education

Bachelor of Applied Science and Engineering **Sept 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)

Technical Skills and Qualifications

Software & Tools: SolidWorks, AutoCAD, Onshape, Minitab, Microsoft Office Suite
Programming & Languages: Python, MATLAB, CSS, HTML, Git
Soft Skills: Time Management, Collaboration, Critical Analysis, Verbal & Written Communication, Documentation

Professional Experience

Mechanical Engineering Intern (Special Projects) **May 2024 – Aug 2025**
AGS Automotive Systems | Oshawa, ON

- Developed over 20 new part and process models using SolidWorks, improving production efficiency and 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

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
- Used MATLAB to optimize link lengths and SolidWorks for folding arm simulations within tight drone dimensions

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%

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

Awards & Certifications

Secondary School Valedictorian, Ontario Scholar, Basic Machining (George Brown), SolidWorks Associate (CWSA)

References Available Upon Request