

Mohid Tahir

Mechanical Engineer

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Education

University of Toronto

Sep. 2021 – Apr. 2026

Bachelor of Applied Science and Engineering

Toronto, ON

- **Program:** Mechanical Engineering + PEY Co-op, Minor: Engineering Business, Certificate: EV Design
- **Related Coursework:** Mechanical Engineering Design, Kinematics and Dynamics of Machines, Electric Vehicle Design, Analog and Digital Electronics, Design for the Environment
- **Honours:** Dean's Honours List

Technical Skills and Qualifications

Project Management: Scope Definition, Project Planning, Timeline Tracking, Stage-Gate Product Launch, Risk Management, Budget and Cost Modelling, Stakeholder Management, Client Communication, Requirements Gathering

Methodologies: Agile, Six Sigma DMAIC, Lean, Iterative Design, Weighted Decision Matrices, Life Cycle Assessment (LCA), NPV Modelling

Software & Certifications: Microsoft Office Suite (Excel, Word, PowerPoint), Microsoft Project (foundational), SolidWorks (CSWA Certified), AutoCAD, Python, MATLAB, Basic Machining Certification

Professional Experience

Mechanical Engineering Intern (Special Projects)

May 2024 – Aug. 2025

AGS Automotive Systems

Oshawa, ON

- Modelled 20+ bracket, fixture, and process assemblies in SolidWorks with GD&T-compliant drawings, supporting active production programs across the plant
- Applied the MOST (Maynard Operation Sequence Technique) method to benchmark cycle times on key workflows, identifying layout changes that cut process time by 15%
- Built Excel tracking dashboards to visualize workflow bottlenecks, presenting data-driven recommendations directly to plant engineering leadership

Design Engineering Intern

May 2023 – Aug. 2023

Parts Apart

Toronto, ON

- Designed a convertible coffee mug end-to-end as the sole design engineer, working directly with the founder across discovery, CAD, rapid prototyping, and user testing
- Scoped a target user segment affecting roughly 40% of the population through customer interviews, sharpening product positioning before committing to initial CAD models

Communications Manager & Project Team Member

Jan. 2022 – Apr. 2022

Engineering Strategies and Practice II (APS112) - University of Toronto

Toronto, ON

- Served as the single point of contact between a faculty client and a 5-person design team building a teaching device for the course: Six Sigma for Engineers (DMAIC)
- Shortened feedback to revision cycles by roughly 20% through structured weekly touchpoints and a shared requirements log, translating client input into engineering action items
- Tracked project milestones and delegated deliverables across the team, ensuring the final prototype and consulting report were completed on strict academic schedules

Projects

Low-Speed PMSG for Vertical Axis Wind Turbine

Sep. 2025 – Apr. 2026

Capstone Design (MIE490/491), Client: UTWind

University of Toronto

- Coordinated design milestones across a capstone team delivering a custom permanent magnet generator for UTWind, from architecture selection through validated simulation to fabrication-ready handoff
- Screened four competing generator architectures using a weighted decision matrix, aligning technical trade-offs with client performance requirements before committing design resources
- Prepared the final Bill of Materials (BOM) and procurement specifications for custom magnetic and lamination steel components, setting up the 2026 turbine build

Google Home Housing

Jan. 2024 – Apr. 2024

Design for the Environment (MIE315)

University of Toronto

- Ran a materials trade study comparing plastic and FSC-certified wood for smart speaker housings, using hybrid Life Cycle Assessment and Net Present Value as the decision basis
- Projected roughly \$96 in per-unit savings over a 5-year lifecycle through NPV modeling, proving the financial viability of sustainable materials in a formal consulting-style recommendation