

Mohid Tahir

Mechanical Engineer

+1 (647) 778-8676 [✉ mohidt@outlook.com](mailto:mohidt@outlook.com) [🌐 mohidtaahir.ca](http://mohidtaahir.ca) [in linkedin.com/in/mohid-tahir](https://www.linkedin.com/in/mohid-tahir)

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
- **Dean's Honours List:** Fall 2025 & Winter 2026

Technical Skills and Qualifications

Process & Analysis: Six Sigma DMAIC, MOST Work Measurement, Lean, Root Cause Analysis, Continuous Improvement, Life Cycle Assessment (LCA), NPV Modelling, Cost-Benefit Analysis, Weighted Decision Matrices

Software & Tools: Microsoft Excel (advanced), Minitab, SolidWorks (CSWA Certified), AutoCAD, Microsoft Office Suite, Python, MATLAB

Documentation & Collaboration: Engineering Drawings, SOPs, Technical Documentation, Stakeholder Reporting, Cross-Functional Collaboration, Basic Machining Certification (George Brown College)

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 changes that cut process time by 15%
- Built Excel tracking models to visualize process metrics and present recommendations to engineering leads, turning time-study data into actionable layout and tooling changes
- Audited 50+ steel bundles per week against internal specifications, flagging dimensional and surface defects before downstream processing

Design Engineering Intern

May 2023 – Aug. 2023

Parts Apart

Toronto, ON

- Designed a coffee mug with a convertible handle (top-mounted for stacking, side-mounted for drinking) end-to-end as the sole design engineer on a two-person team, working directly with the founder across discovery, CAD, prototyping, and user testing
- Scoped a target user segment affecting roughly 40% of the population through customer interviews and secondary research, sharpening product positioning before CAD work

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

Projects

Low-Speed PMSG for Vertical Axis Wind Turbine

Sep. 2025 – Apr. 2026

Capstone Design (MIE490/491), Client: UTWind

University of Toronto

- Coordinated generator design for a real external client (UTWind) across a team, from concept through simulation to fabrication-ready procurement specs, delivering against a defined external deadline
- Screened four generator architectures using a weighted decision matrix, documenting trade-offs and presenting the recommendation to a non-technical stakeholder audience

All-Wheel-Drive Demonstration Platform

Sep. 2025 – Dec. 2025

Electric Vehicle Design (APS380)

University of Toronto

- Designed and built a scaled dual-motor split-axle AWD platform in SolidWorks to demonstrate EV drivetrain architecture, torque split, and traction behavior
- Iterated on belt and pulley geometry and shaft alignment across multiple SolidWorks revisions to resolve fit issues and improve drivetrain robustness

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
- Showed wood delivered roughly \$96 in per-unit savings versus plastic over 5 years while reducing cradle-to-grave emissions