

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

Technical Skills and Qualifications

Customer & Business: Consultative Communication, Needs Assessment, Stakeholder Management, Client Communication, Relationship Building, Training and Onboarding, NPV Modelling, Cost-Benefit Analysis, Market Research

Technical Literacy: SolidWorks (CSWA Certified), AutoCAD, Engineering Drawings, BOMs, GD&T, DFM, Translating Technical Detail to Business Value

Software & Methods: Microsoft Office Suite (Excel, Word, PowerPoint), Minitab, Python, MATLAB, Six Sigma DMAIC, Life Cycle Assessment, Basic Machining Certification (George Brown College)

Professional Experience

Mechanical Engineering Intern (Special Projects)

May 2024 – Aug. 2025

AGS Automotive Systems

Oshawa, ON

- Applied the MOST (Maynard Operation Sequence Technique) method to benchmark cycle times on key workflows, identifying changes that cut process time by 15%
- 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

Shift Leader

Jun. 2020 – Jan. 2024

Dairy Queen

Mississauga, ON

- Led a 6 to 8 person team through weekday rushes, owning cash reconciliation, order accuracy, and escalated customer issues across 3.5 years of part-time work alongside university

Projects

Low-Speed PMSG for Vertical Axis Wind Turbine

Sep. 2025 – Apr. 2026

Capstone Design (MIE490/491), Client: UTWind

University of Toronto

- Collaborated with teammates to translate UTWind's performance requirements into a finalized generator architecture, using a weighted decision matrix to communicate trade-offs to a non-technical client stakeholder
- Prepared client-facing procurement specifications for NdFe35 magnets and ASTM A677 (M19) lamination steel, bridging technical detail and business-ready deliverables

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 Google Home speaker housings, using hybrid Life Cycle Assessment and 5-year Net Present Value as the decision basis
- Packaged the analysis into a consulting-style recommendation covering cost, environmental impact, brand perception, and end-of-life disposal