

Mohid Tahir

Mechanical Engineer

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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, Electric Vehicle Design, Analog and Digital Electronics, Design for the Environment

Technical Skills and Qualifications

Product & Design: Voice of Customer (VOC), Kano Analysis, House of Quality (HOQ), Competitive Benchmarking, Positioning, Failure Mode Analysis, Iterative Design, Stage-Gate Product Launch, User Research

Methods & Analysis: Agile, Six Sigma DMAIC, Lean, Life Cycle Assessment (LCA), NPV Modeling, Weighted Decision Matrices, Cost Modeling, Stakeholder Management

Software & Tools: SolidWorks, Microsoft Office Suite, Python, MATLAB, HTML, CSS, Git, AI Tools (Claude, ChatGPT) for rapid prototyping

Professional Experience

Design Engineering Intern

May 2023 – Aug 2023

Parts Apart | Toronto, ON

- Led end-to-end design of a convertible travel mug (top-mounted carry handle that detaches and reattaches as a side drinking handle) as the sole design engineer, working directly with the founder across discovery, CAD, prototyping, and user testing
- Ran semi-structured Voice of Customer interviews across five user segments (commuter, office, gym, parent, casual) and synthesized findings via affinity mapping, 3/6/9 priority scoring, and Kano categorization
- Benchmarked five competing travel mug formats against eight weighted customer needs and mapped them on a positioning chart, identifying a clear product gap between compactness and handle comfort
- Translated customer priorities into twelve measurable target specifications with tolerances via a House of Quality matrix, and identified four failure modes with mitigation strategies
- Delivered a functional working prototype at under \$50 in material cost, closing the first full design cycle for the product

Mechanical Engineering Intern (Special Projects)

May 2024 – Aug 2025

AGS Automotive Systems | Oshawa, ON

- Modeled 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%

Communications Manager & Project Team Member

Jan 2022 – Apr 2022

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

- 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

Google Home Housing

Jan 2024 – April 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

Awards & Certifications

Dean's Honours List (Fall 2025), Certified SolidWorks Associate (CSWA), Basic Machining Certification (George Brown College), University of Toronto Skule Frosh Leader