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

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

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

Software & Tools: Microsoft Office Suite (Excel, Word, PowerPoint), Microsoft Project (foundational), SolidWorks, AutoCAD, Python, MATLAB

Professional Experience

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%

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

- 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 (Capstone) **Sep 2025 – Apr 2026**
Capstone Design (MIE490/491), Client: UTWind | University of Toronto

- Managed a year-long capstone design project for UTWind, delivering a custom permanent magnet generator from architecture selection through validated simulation to fabrication-ready handoff with procurement specifications
- Screened four competing generator architectures using a weighted decision matrix, aligning technical trade-offs with client performance requirements before committing design resources

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