Kaiser Tam

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Education

University of Toronto, BASc. Mechanical Engineering + PEY Co-op July 2023 – Present

- **Intended Minors:** Advanced Manufacturing, Engineering Business
- **Coursework:** Mechanical Engineering Design, Thermodynamics, Solid Mechanics

Technical Skills

CAD & Drafting: CATIA, SolidWorks, Solid Modeling, Surface Modeling, Rapid Prototyping, GD&T

Analysis / Simulation: ANSYS, FEA, CDF, Fidelity Pointwise

Manufacturing: Engine Lathe, Mill, Soldering, MIG Welding

Experience

Operations Co-Director, Hack the 6ix – Toronto, CA Aug 2025 -– Present

- Responsible for coordinating event logistics and day-of operations for a 450+ person 36-hour hackathon

Operations Executive Oct 2024 -– July 2025

- Coordinated the day-of operations and logistics for over 450 hackers and organizers and volunteers for Hack the 6ix 2025, maintaining timeliness throughout the event
- Resolved participant and sponsor emergencies as the primary point of contact for hardware inventory and check-out to ensure timely and accurate distribution of equipment to participants

CREATE Program Facilitator and Content Developer, UofT Engineering Outreach Office – Toronto, CA April 2025 – Aug 2025

- Prepared and delivered week-long educational programs for up to 24 high school students, producing lesson plans to introduce students to aerodynamics concepts
- Guided 95+ high school students through SolidWorks, aerodynamics, and embedded systems (Arduino) concepts, enabling students to undertake a capstone project assembling and pitching aircraft designs for prospective clients

Director, University of Toronto Engineering Kompetitions (UTEK) – Toronto, CA Feb 2025 — Present

- Directing a team of 30+ undergraduate engineering students in organizing and delivering UofT's largest and oldest engineering design competition
- Guided a 15+ person team through the development of 7 unique problem statements focused on solving measurable health accessibility issues, enabling 400+ participants to propose practical real-world solutions
- Collaborated with sub-teams to produce internal and external-facing materials including Word documents, slide decks, and competition briefings to support sponsor outreach, team onboarding, and participant preparation

Junior Design Director July 2024 -– Feb 2025

- Directed the Junior Design event for the UofT Engineering Kompetitions (UTEK) 2025, leading 200 students in developing feasible projectile-launch systems to simulate delivering critical supplies to high-need areas.

Projects

CNC Machine, MIE243 Course Project – Toronto, CA Sept 2024 — Dec 2024

- Designed a hobbyist CNC machine for working class Canadians to complete DIY projects from a garage or small home workshop, allowing users to operate on materials as hard as Al-7075, at speeds up to 24000 RPM with a 0.001" tolerance
- Created a final CAD assembly and supplementary sub-assemblies using Solidworks and presented research, iterative design process, and CAD drawings in a comprehensive final document

Aurora, Blue Sky Solar Racing – Toronto, CA Aug 2024 — Present

- Designed, meshed, and ran CFD simulations using CATIS GSD and ANSYS Fluent on solar vehicles to determine optimal aerodynamic designs for competition standard solar racing vehicles
- Performed tuft, and laser sheet flow visualisation tests on the Gen 11 Borealis vehicle to accurately visualise turbulence during race conditions and inform future generations of potential aerodynamic design improvements