

Andy Huang

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SUMMARY

Mechanical Engineering graduate from the University of Toronto with a background in mechatronics systems and full year experience in aerospace project management. Skilled in coordinating cross-functional teams and leveraging data-driven tools to achieve project goals. Seeking roles in international project management, supply chain, and international business development.

EDUCATION

University of Toronto

Sep. 2020 – Jun. 2026

Bachelor of Applied Science in Mechanical Engineering + PEY Co-op

Toronto, ON

- **Relevant Courses:** Analog/Digital Electronics for Mechatronics, Manufacturing Engineering, Product Design, Mechatronics Principles, Advanced Manufacturing, Business and Entrepreneurship for Engineers.
- 2× Dean's Honor List

EXPERIENCE

Bombardier Aerospace

Aug. 2024 – Sep. 2025

Project Engineering Intern, Engineering Project Planning and Control

Toronto, ON

- Facilitated 3-4 hours of weekly cross-functional meetings for the Global and Challenger jet platforms, managing cross-site stakeholder alignment and change management governance to secure a 95% same-week approval rate.
- Utilized Excel Lookup, Power Queries, Pivot Tables, and Macros to automate workflow validation and consolidate cross-database information, cutting team-wide data processing time by ~20% weekly.
- Managed PowerBI change request databases for project engineering and program management, tracking approval stages, modification documentation, and personnel shifts to drive accountability, reducing outstanding action items by ~25%.

PROJECTS

Data Acquisition and Electronics Procurement Lead

Sep. 2025 – Apr. 2026

University of Toronto/Canadian Sport Institute Ontario (CSIO)

Toronto, ON

- Led the end-to-end design, procurement, and assembly of a dual-channel force-sensing Bluetooth DAQ system, custom-building a load cell amplification circuit enclosed in a custom 3D-printed chassis.
- Collaborated closely with high-performance sport stakeholders to translate user needs into technical engineering criteria, successfully pivoting design scope via a Design-for-Disassembly framework to accommodate future maintenance and retrofits.
- Formulated and executed a multi-stage calibration protocol using a universal loading device up to 550N, validating directional alignment error within a negligible 0.4% tolerance to guarantee field-deployment reliability.

Mechatronics Integrator, Autonomous Maze-Navigating Rover

Sep. 2025 – Nov. 2025

University of Toronto (Mechatronics Principles)

Toronto, ON

- Managed GD&T of a 3D-printed motor transmission assembly in SolidWorks, addressing interfacing issues between 5 components, achieving a non-slip $\pm 0.2\text{mm}$ tolerance fit between all parts.
- Coordinated implementation of Python-Arduino Bluetooth control architecture, communicating with localization and sensor leads to analyze system responsiveness, reducing latency by 40% from baseline.
- Coordinated localization calibration and analysis within a team of 4, using Python and Excel to optimize localization parameters and diagnose embedded systems, and achieving top 10% in overall performance.

LEADERSHIP EXPERIENCE

Project Manager, Hungry Hippos Game Display

May 2025 – May 2026

SPARK Design Club, University of Toronto

Toronto, ON

- Led a cross-disciplinary team of 10 (mechanical, electrical, software), using Notion, Excel, and Gantt charting to manage schedule, budget, and resources, ensuring key monthly milestones were met on time.
- Proactively coordinated procurement, finance, and design to accelerate critical-path technical decision-making, and drove prototyping completion 1 month ahead of schedule.
- Provided 3D-printing and CAD technical support to 30+ member club, improving productivity and interdisciplinary cohesion.

SKILLS

- **Bilingual:** Chinese & English (native proficiency)
- **Microsoft Suite:** Word, Power BI, Excel (Lookups, Power Query, Macros), PowerPoint, Outlook, Visio, Project
- **Programming:** MATLAB, Python, Embedded C/C++, HTML, JavaScript
- **3D Modeling/CAD:** SolidWorks, AutoCAD, JLC CAD, Blender
- **Finite Element Analysis:** Ansys thermal/structural FEA, SolidWorks Simulation
- **PCB Design:** JLC EDA, Autodesk Eagle, LTspice
- **Design for Manufacturing (DFM):** GD&T, FMEA, design for environment, tolerance analysis
- **Business & Management:** Financial statement literacy, cost-benefit, budgeting, procurement, KPI tracking