KEIRON STREET

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ACADEMIC & CO-OP STATUS

Mechatronics and Robotics, BSc Co-op, University of Alberta	**Class of 2029**
Cumulative Grade Point Average	**3.3/4.0**
Completed Academic Terms	**4 of 8**
Completed Co-op Work Terms	**0 of 5**
Availability Starting May 2026	**4 or 8 months**

TECHNICAL SKILLS

EQUIPMENT	DESIGN	PROGRAMMING	PRODUCTIVITY
Manufacturing	SolidWorks	Python	MS Office
Soldering	Altium / KiCAD	C++	Google Workspace
3D Printing	Fusion 360	HTML	Technical Writing
Breadboarding	Finite Element Analysis	Latex	Interpret Engineering Drawings

PROJECT EXPERIENCE

Aero Design: *UAlberta Aero - Structural*   Sept 2025 – Present

- **Designed and optimized** aircraft spars and structural components using Fusion 360 and SolidWorks.
- **Performed Finite Element Analysis**, simulating motor and wing loads to optimize spar design and materials.
- **Conducted material research** with an emphasis on strength-to-weight ratio, cost analysis, and a focus on manufacturability.
- Learned **transferable, hands-on skills manufacturing** physical components from **CAD models and electrical schematics.**

Wind Turbine: *Introduction to Engineering Design*   Jan 2025 – Apr 2025

- Led a team of 5 students in designing and building a **functional wind turbine**. Guiding project planning and prototyping.
- **Coordinated weekly meetings** and ensured adherence to technical/time constraints, resulting in **on-time deliverables**.
- Designed multiple prototypes using **sustainable materials**, **improving turbine efficiency by over 25% compared to initial model.**
- **Achieved the highest power output and efficiency** among 20+ competing teams through iterative testing.

Digital to Analog Converter (12 Bit R-2R ladder)   Nov 2025

- **Created a DAC** using Esp32 to reinforce understanding of **signal processing, embedded systems, and C++.**
- **Designed** a schematic in **Altium** applying principles of circuit design.
- Coded input-output logic using **C++** to generate digital signals to interface with the DAC.
- **Validated the output** by comparing measured outputs to theoretical equations helping to build a detail oriented mindset.
- **Constructed a physical breadboard prototype for proof of concept**, translating C++ logic into measurable analog output.
- **Incorporated constructive feedback** from engineering mentors/professors to further refine my approach and understanding.

ADDITIONAL WORK EXPERIENCE

Pattison Food Group   Oct 2023 – Aug 2024

- Handled a high volume of 100+ customers daily **focusing on productivity and cleanliness**.
- Managed customer inquiries and resolved issues in a fast-paced environment while maintaining composure.
- **Collaborated/** with coworkers to efficiently complete food production on time, ensuring all safety standards were met.
- **Built a working mindset** helping me to learn proper safety, communication skills and an ability to work in a team

LEADERSHIP & COMMUNITY INVOLVEMENT

Engineering Youth Lead: *Team up Science*   Mar 2025 – Present

- Collaborated in creating 6 interdisciplinary engineering workshops.
- Coordinated and chaperoned 20+ students, exposing them to real-world engineering problems.
- Promoted teamwork and critical thinking to help students reach common problem-solving goals.

ADDITIONAL INFORMATION

Class 5 Driver's License: Clean abstract and reliable vehicle
Willing to relocate: Open to Travel
Interests: PC building, body building, Lego, swimming, automation