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## SKILLS

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- **Technical Skills:** SOLIDWORKS (CSWA Certified), AutoCAD, Rapid Prototyping, Concept Generation, 3D Printing, GD&T, FEA, RISA 3D, C++, Python, Java, and Microsoft Office (Word, Excel, Outlook, Teams).
  - **Creative Tools and Software:** Blender (4+ Years), FL Studio(2+ years), and Basic Image Editing.
  - **Certifications:** SOLIDWORKS CSWA, Google AI Professional Certificate.
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## PROFESSIONAL AND VOLUNTEER EXPERIENCE

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### **CR WALL**, Cambridge — *Documentation and Engineering Co-op Student*

Full-time Co-op: May 2026 - August 2026

- Collaborated with cross-functional engineering and assembly teams to develop ISO-compliant SOPs and a Process Control Description (PCD), hardware specifications, and alarm protocols into deployment-ready documentation.
- Engineered 3D Blender scale models of residential gas systems and biogas injection skids, accelerating client design approval cycles through advanced visual presentation.

### **Waddell Engineering Ltd.**, Cambridge — *Structural and Mechanical Engineering Co-op Student*

Full-time Co-op: September 2025 - December 2025

- Reviewed over 10 architectural and drafting drawings for residential and agricultural projects, including barns, cottages, sheds, and house extensions weekly, and performed structural calculations for lintel beams, stud/post sizing, pier and footing sizing, and timber beam selection based on loading requirements.
- Designed steel components in SolidWorks; produced detailed manufacturing drawings and BOMs to support prototyping, testing, and production; documented performance results; and communicated findings to cross-functional engineering teams.

### **Veritas/Bend All Automotive**, Ayr — *Engineering and Validation Lab Intern*

Full-time Co-op: January 2025 - April 2025

- Executed 100+ weekly tensile, burst, leak, and thermal tests on automotive fluid lines for major OEMs (Ford, GM, Stellantis), configuring and validating test systems to ensure strict accuracy and compliance.
- Collaborated with engineering teams to analyze component failures and refine test methods utilizing APQP and DFMEA principles, documenting results through structured reports to drive product validation.

### **Cambridge Martial Arts Academy**, Cambridge — *Assistant Instructor*

November 2018 - September 2025

- Mentored and coached over 20 students per class in technical discipline, complex techniques, and overall skill advancement.
  - Earned Second Degree Black Belt in Meibukan Goju-Ryu Karate and achieved Canadian National Champion status (2019).
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## EDUCATION

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### **University of Waterloo**, Waterloo — *Pursuing a Bachelor of Mechanical Engineering*

September 2024 - Present | Expected Graduation: April 2029

- Academic Standing: Completed 2A Term; WEEF (Waterloo Engineering Endowment Foundation) Student Representative, steering funding allocation initiatives for advanced engineering hardware and robotics equipment.
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## Entrepreneurship and Projects

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### **Founder and Operator**, Cambridge — *Additive Manufacturing Service*

January 2025 - Present

- Managed a localized rapid prototyping and 3D printing service for students in my residence and then locally during co-op, utilizing high-speed Bambu Lab A1 hardware to manufacture custom components and consumer goods.
- Optimized manufacturing parameters (layer height, infill density, and print speed) across various PLA material profiles to maximize throughput while ensuring structural integrity and dimensional accuracy.

### **Independent Operator**, Cambridge — *E-commerce and Supply Chain*

January 2025 - Present

- Coordinated international supply chain logistics for an e-commerce venture, sourcing custom-sized, UV-resistant acrylic storage cases from overseas manufacturers via Alibaba.
- Established product quality specifications and managed a bulk inventory of 100+ units, optimizing unit economics and direct-to-consumer distribution on Facebook Marketplace to maximize profit margins.