

# Devin Corti

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## TECHNICAL SKILLS

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**Mechanical:** SolidWorks, AutoCAD, Fusion 360, Machining (Lathe, Mill), 3D Printing, FDM, Laser Cutting

**Firmware:** C++, MATLAB, Git, Python, JavaScript, Excel

**Electrical:** Circuits, Wiring, Electrical Components, Arduino

**Certifications:** WHMIS 2015, Class 5 Driver's License (AB), DELF B2 (French), Worker Health & Safety Awareness

## EXPERIENCE

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### Robotics Design Co-op

May 2025 – Present

*RoBIM Technologies Inc.*

*Edmonton, AB*

- Designed, built, and tested a multifunctional tool splitter using Fusion360 that combined a vacuum gripper and stapler end effector, streamlining robotic tool changes and reducing cycle time.
- Led the design of a robotic material preparation table, allowing automated cutting of plywood and lumber to expand robotic capabilities in prefabricated wall panel production
- Collaborated on PLC integration efforts, working to connect a PLCnext controller with an ABB industrial robot to expand sensor I/O and improve system control flexibility
- Contributed to the completion of a human-robot wall panel assembly process, helping increase productivity by 30% through automation and workflow optimization.

### Hockey Referee

Sept. 2019 – Mar 2024

*Hockey Alberta*

*Calgary, AB*

- Communicated in a professional manner with coaches, volunteers, and players to ensure safety and positivity
- Continuously learned and improved understanding of the game's rules to uphold fairness and equality

## EXTRACURRICULARS

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### University of Waterloo Formula Electric

Sept 2024 – Present

*Seats Responsible Engineer*

*Waterloo, ON*

- Responsible for the design and manufacturing of the carbon fibre seat, using SolidWorks for design and FEA
- Assist in the manufacturing and installation of chassis components through milling, lathing, waterjet CNC, laser cutting, and 3D printing to construct a solid foundation for the car
- Create CAD models, engineering drawings and dxf files to ensure accurate manufacturing of chassis components

### Robotics Team Lead

Sept. 2022 – Feb. 2024

*Springbank Robotics Team*

*Calgary, AB*

- Led the team to the FIRST World Championships by overseeing the building and testing of the robot
- Spearheaded the design of the robot, using sketches to create an initial idea that would begin the design process
- Created a CAD model of the robot using Fusion 360 to ensure the robot could be built without complication
- Arranged meetings and status reports as team lead, resulting in timely completion and success of the robot

### Battle Bot Project

Sept. 2024 – Dec. 2024

*University of Waterloo*

*Waterloo, ON*

- Drafted engineering sketches to create a baseline design, which led to modeling and designing on SolidWorks
- Worked as a team to oversee a project from beginning to end, designing, manufacturing, and testing the robot

## EDUCATION

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### University of Waterloo

Waterloo, ON

*Bachelor of Applied Science in Mechatronics Engineering*

*Sept. 2024 – Apr. 2029*

- Overall GPA:** 4.0 (98.14% avg.)
- Scholarships & Awards:** Carl A. Pollock Engineering Scholarship, President's Scholarship of Distinction
- High School Awards:** Valedictorian, Schulich Leader Nominee, Governor General's Bronze Medal, Premier's Citizenship Award, Queen's University Chancellor's Scholarship (Declined), Highest Grade 11 & 12 Average

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**Other Involvement:** SHAD Canada, Academic Rep, Hockey, Baseball, Rugby (Team Captain), Big Brother's Big Sister's of Canada, Graduation Committee, Model United Nations, Goalie Development Program

**Interests:** Travel, Reading, Hiking, Cooking, Formula 1, Chess, NHL (Habs), MLB (Jays)