

Cameron Farrell

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Education

University of New Brunswick

B.Sc. Mechanical Engineering, Mechatronics

Fredericton, NB

Expected: April 2027

Experience

Formula SAE Dynamic Modelling Lead

University of New Brunswick

Fredericton, NB

Sept 2025 – present

- Built MATLAB models to quantify wheel-load transfer during peak acceleration/cornering, used in suspension strength analysis and bearing selection.
- Developed MATLAB/Simulink suspension frequency models and tuned system parameters to work through frequency and roll behaviour, improving handling performance.
- Coordinated with chassis and suspension sub-teams to integrate results.

Mechanical Engineering Co-op

BWS Manufacturing Ltd.

Centreville, NB

May – Sept 2024

- Used Autodesk Inventor to design and modify 60+ steel parts and assemblies used in production.
- Produced detailed engineering drawings, incorporating design revisions and mentor feedback to improve clarity and reduce rework.
- Supported ISO 9001 QMS compliance by performing internal auditing, documenting non-conformances and collaborating with production to implement corrective actions.
- Performed load testing and pneumatic timing checks to verify design specifications and produced beam-deflection drawings for production inspectors to use during verification

Sales and Service Representative

Savage's Bicycle Centre

Fredericton, NB

May – Oct 2025

- Completed online courses in service operations and component function to provide mechanical support.
- Tracked and organized the POS system to reduce discrepancies.

Greenhouse Manager

Currie's Greenhouses

Douglas, NB

April 2018 – Oct 2023

- Mentored staff, oversaw daily activities, performed hardware installation and preventative maintenance.

Technical Skills

CAD & Design Tools: Inventor, SolidWorks, Fusion 360, NX, 3D-printing, GD&T, Microsoft Office

Programming & Simulation: MATLAB, Simulink, Python

Lab Equipment: FPGA, oscilloscope, function generator, power supply, vernier calipers, DMM, DAQ, accelerometer, machine calibration