

Cameron Farrell

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EDUCATION

University of New Brunswick

B.Sc. Mechanical Engineering, Mechatronics

Fredericton, NB

Expected Graduation: April 2027

EXPERIENCE

Dynamic Modelling Lead

UNB Formula SAE

Fredericton, NB

September 2025 – Present

- Built MATLAB models to quantify wheel-load transfer during peak acceleration and cornering, working with other teams to utilize data for suspension strength analysis and bearing selection.
- Developed Simulink suspension frequency simulations and tuned system parameters to work through frequency and roll behaviour, improving handling performance.
- Directed the dynamic modelling strategy and mentored junior members on vehicle dynamics theory.

Mechanical Engineering Co-op

BWS Manufacturing Ltd.

Centreville, NB

May – September 2024

- Designed and modified 60+ steel parts and assemblies using Autodesk Inventor, applying Design for Manufacturing (DFM) principals to improve clarity and reduce rework.
- Validated design specifications by performing load testing, pneumatic timing checks, and creating beam-deflection reference drawings for quality inspectors to use during verification.
- Supported ISO 9001 QMS compliance by conducting internal audits and collaborating with production teams to document non-conformances and corrective actions.
- Produced detailed engineering drawings and revision documentation, ensuring clear communication between the design team and the manufacturing floor.

Sales and Service Representative

Savage's Bicycle Centre

Fredericton, NB

May – October 2025

- Provided mechanical support applying specialized training to diagnose and repair equipment.
- Managed inventory processes within Shopify and provided excellent service to customers.

Greenhouse Manager

Currie's Greenhouses

Douglas, NB

April 2019 – October 2023

- Managed daily operations, hardware installation, and preventative maintenance, while mentoring staff.

SKILLS

CAD: SolidWorks (CSWA Certification), Autodesk Inventor, Fusion 360, NX

Analysis and Simulation: MATLAB, Simulink, Python, Minitab

Documentation & Standards: Microsoft Office, GD&T, DFM

Fabrication: 3D-Printing (FDM), Soldering, Machining & Forming Fundamentals