

# Cameron Farrell

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## EDUCATION

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### University of New Brunswick

*B.Sc. Mechanical Engineering, Mechatronics*

Fredericton, NB

Expected Graduation: April 2027

## EXPERIENCE

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### 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 productions 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

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**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