

## Cameron Farrell

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### Education

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**University of New Brunswick**

***B.Sc. Mechanical Engineering, Mechatronics***

Fredericton, NB

*Expected: April 2027*

### Experience

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**Dynamic Modelling Lead**

*UNB Formula SAE*

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 2019 – Oct 2023*

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

### Technical Skills

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**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