

Cameron Farrell

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Education

University of New Brunswick <i>B.Sc. Mechanical Engineering, Mechatronics</i>	Fredericton, NB <i>Expected: April 2027</i>
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Experience

Dynamic Modelling Lead <i>UNB Formula SAE</i>	Fredericton, NB <i>Sept 2025 – present</i>
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- 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 <i>BWS Manufacturing Ltd.</i>	Centreville, NB <i>May – Sept 2024</i>
<ul style="list-style-type: none">• 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 <i>Savage's Bicycle Centre</i>	Fredericton, NB <i>May – Oct 2025</i>
<ul style="list-style-type: none">• Completed online courses in service operations and component function to provide mechanical support.• Tracked and organized the POS system to reduce discrepancies.	

Greenhouse Manager <i>Currie's Greenhouses</i>	Douglas, NB <i>April 2019 – Oct 2023</i>
<ul style="list-style-type: none">• 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