

Patrick Anthony

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Education

Memorial University of Newfoundland, St. John's, NL

2023 - Present

Fourth Year Bachelor of Mechanical Engineering Co-op Program, Expected Graduation 2028.

Awards and Scholarships

Transforming Our Horizons Entrance Scholarship

2023

Duke of Edinburgh Award (Bronze, Silver and Gold levels)

2020 - 2023

Work Experience

Field Service Engineering Student, Irving Shipbuilding Inc., Halifax, NS

May 2026 - Aug 2026

- Supported production teams by investigating and resolving manufacturing issues on the shop floor as they arise.
- Performed root cause analysis to determine the origin of production defects and non-conformances.
- Author engineering change requests, providing documented solutions and corrective actions to production.
- Support both the Arctic and Offshore Patrol Ship (AOPS) and River Class Destroyer programs for the Royal Canadian Navy.
- Apply general manufacturing knowledge and hands-on production experience to improve quality and continuity on the build.

Production Engineering Student, Irving Shipbuilding Inc., Halifax, NS

Sept 2025 - Dec 2025

- Supported numerical control data and production engineering by creating 2D and 3D models for steel components and assemblies using AutoCAD and SimSolid.
- Generated nests for steel parts to be cut on plasma tables.
- Developed HTML-based automation scripts in VS Code that reduced manual data handling and sped up processes by 83% while reducing errors.
- Lead project of creating an adjustable weight pack system to support the test and trials team.

Design and Manufacturing Student, Student Design Hub, St. John's, NL

Jan 2025 - Apr 2025

- Completed HAAS Super Mini Mill CNC milling course; trained in laser cutting and engraving (Trotec Speedy 300 Flexx).
- Trained in design for manufacturing using SolidWorks and Inventor.
- Developed manufacturable CAD models and created CAM milling cut files.
- Collaborated with MUN's multidisciplinary student design teams to complete design reviews for CAD files.

NDT Technician Level 1, Atlantic Inspection Services Inc., St. John's, NL

2021 - 2024

- Trained and certified in Magnetic Particle Inspection (MPI) to the ASTM-E709/DS1 standard.
- Non-Destructive Testing (NDT) of offshore oil pipes to CAT 5, DS1 standard.
- Acquired skills in welding on pipes and cleaning both inner and outer diameters of pipes.
- Full-length ultrasonic testing, as well as end area ultrasonic testing.

Extracurricular

Formula MUN - FSAE Formula Student, Team Lead

2025 - Present

- Serve as team lead for Memorial University's Formula SAE student racing team, taking on the role of team principal.
- Lead and facilitate regular team meetings, set project direction, and ensure cross-functional coordination across all engineering sub-teams.
- Responsible for keeping the overall project on schedule and aligned with FSAE competition requirements.
- Assist in manufacturing of the chassis and all mechanical components, and conduct design and design for manufacturing reviews.

MUNStar1 CubeSat, Mechanical Sub-team Member

Aug 2024 - Present

- Member of the mechanical sub-team for Memorial University's CubeSat satellite project, now preparing for launch.
- Design parts for the satellite's deployable panels, along with other spacecraft components, using SolidWorks.

Skills and Certifications

CAD and Manufacturing: Onshape, SolidWorks, AutoCAD, Fusion 360, Inventor CAM, CNC Milling, 3D Printing

Analysis and Programming: SimSolid, Python, VBA, HTML, JS, CSS, Microsoft 365, VS Code

Fabrication and NDT: Welding (Stick, MIG, TIG, Gas/Oxyacetylene), Bodywork and Automotive Painting, MPI to DS1 Standard, Offshore Pipe NDT, Instrumentation Calibration

Certifications: ASTM E709-DS1 Magnetic Particle Inspection (MPI) Non-Destructive Testing (NDT), Lean Six Sigma White Belt (Continuous Improvement Training), Standard First Aid/CPR

Additional: Strong written and verbal communication, attention to detail, valid Class 5 driver's licence

Volunteer Experience

Community stained glass artwork donation project

2020 - Present