

Martin Bissonnette

Nanotechnology Engineering Student

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A dedicated and detail-oriented engineering student with a technical mindset, proficient in design software and equipped with strong hands-on technical skills. Aiming to apply a diverse skill set and wide range of knowledge in the sciences to innovate and solve engineering challenges.

Skills

Design Software AutoCAD, Fusion, SolidWorks, FEMM
Programming Languages Python, MATLAB, Excel, Arduino, HTML, CSS
Languages Fluent in English and French (DELF Certified at B1 Level)
Trade Skills Welding, Metallurgy, Carpentry, Electrical, Automotive
Soft Skills Organization, Critical Thinking, Multitasking, Teamwork

Work Experience

Lactalis Canada

Engineering Student

2024 Summer Co-op

Ingleside, Ontario

- > Developed a program to analyze sensor data and calculate energy contributions, optimizing heat exchanger placement to enhance system efficiency.
- > Designed parts and comprehensive floor maps using AutoCAD and Fusion, ensuring precise manufacturing and construction in future projects.
- > Analyzed machine processing rates to identify bottlenecks and quantify cost and time savings, enhancing manufacturing efficiency.
- > Assisted in developing equipment safeguards, ensuring legal compliance and improving worker safety.

Marty's Firewood & Carpentry

Owner

2019 - 2024

Ingleside, Ontario

- > Established and led a successful business, generating \$2,000-\$3,000 annually through effective entrepreneurship and project management.
- > Managed all aspects of operations, including customer service, logistics, and financial oversight, demonstrating strong business acumen.

Nick's RV

Assistant RV Technician

2018 - 2024

Ingleside, Ontario

- > Repaired and replaced defective plumbing and electrical systems, ensuring optimal functionality and customer satisfaction.
- > Replaced compromised floors and roofs and added custom steel brackets when needed, enhancing durability and safety of RVs.

Projects

Academic: UW Silica Integrated Optics Co-founder

December 2023 - Ongoing

- > Helped establish a official University design team specifically aimeded for Nanotechnology Engineering students.
- > Led research on integrating high-accuracy micro controllers into optical systems.
- > Worked with state of the art equipment within the University's Ultra Fast Laser Lab, ensuring safety, professionalism and proper operation of equipment.

Academic: Waterloo Propulsion Team Member

September 2023 - January 2024

- > Collaborated with a multidisciplinary team to design and manufacture Transverse Flux Motors (TFMs) for use in hyperloop technology displays.
- > Developed a precision copper coil winding system to build electric motors, enhancing manufacturing speed and the project's technical accuracy.

Awards

George T. Kanab Scholarship

June 2023 and January 2024

- > For Academic Excellence and Enrollment into an Engineering Program

University of Waterloo President's Scholarship

Sept 2023

- > Grade average above 90% upon enrollment to full time degree

Knights of Columbus Scholarship for Academic Excellence

June 2023

- > For Academic Excellence

Education

University of Waterloo

Bachelor of Applied Sciences in Honours Nanotechnology Engineering - 82% Average

Fall 2023 - Spring 2028

Ontario, Canada