

Anthony Arseneau

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EDUCATION

University of New Brunswick

Masters of Engineering (M.Eng.) in Mechanical Engineering

- Cumulative GPA: 4.3/4.3

Fredericton, NB

Expected December 2027

Mount Allison University

Bachelor of Science in Computer Science, Minor in Mathematics

- Cumulative GPA: 3.7/4.3

Sackville, NB

Graduated May 2025

EXPERIENCE

Meter Services Summer Student

NB Power

- Performed meter reads in the Bathurst and Eel River area.

Bathurst / Eel River Area, NB

May – August 2025

Web Developer

Personal Contract

- Developed a high-performance website using HTML, CSS, and JavaScript, increasing client visibility and user engagement by over 10 times, attracting more than 2,000 unique users a month.
- Collaborated closely with the client to provide comprehensive assistance throughout the domain registration process, management of the hosting setup, and migration of the website to the new platform.
- Monitored website traffic and performance metrics through advanced analytics tools, such as Cloudflare, which contributed to a 33% improvement in website loading speed, overall security, and user experience.

Moncton, NB

May 2024 – Present

Maintenance Worker and Technician

Madisco Apartments

- Gathered over 35,000 views on Google Street View by capturing and processing 360-degree footage using image stitching software and geospatial data engineering techniques, increasing client engagement and boosting online visibility.
- Assisted in the installation of new machinery, ensuring compliance with safety and engineering standards.
- Designed mechanical parts for broken or missing components using CAD software like Autodesk Fusion 360.
- Operated heavy machinery to assist with construction and performed basic maintenance tasks, including cleaning, painting, and minor repairs to maintain safe and efficient operations.

Bathurst, NB

Summers 2018 – 2024

PROJECTS

Portfolio Website

Personal Project

- Created a website hosted on a personal server that showcases all projects and skills, including images and videos.
- Increased personal visibility and engagement by gathering more than 600 unique users per month.
- Implemented responsive design using HTML, CSS, and JavaScript to ensure optimal performance across devices.
- Improved site security and performance by integrating HTTPS and optimizing load times for images and videos.

Bathurst, NB

January 2024 – Present

Encrypted Messaging Application

University Project, Computer Networks

- Designed a secure messaging application that utilizes cryptographic algorithms, such as RSA, AES, and SHA-256.
- Utilized Computer Networks frameworks and the Java programming language to achieve this project.
- Conducted rigorous testing to ensure data integrity, confidentiality, and resilience against common network vulnerabilities.

Sackville, NB

January 2024 – April 2024

Self-Leveling Robot

University Project, Digital Signal Processing and Electronics

- Developed a robotic platform to balance a steel bearing ball under various perturbations.
- Leveraged CAD software, PID systems, C++, and electrical tools, such as microcontrollers and precise stepper motors.
- Contributed to project planning, troubleshooting, and iterative prototyping in a team environment to optimize performance.

Sackville, NB

September 2023 – December 2023

AWARDS

Dean's List

Mount Allison University

Sackville, NB

2021-22, 2023-24, 2024-25

- Recognized with Dean's List standing throughout multiple academic years.
- Awarded for outstanding academic performance and excellence among top-performing students.

Entrance Scholarship

Mount Allison University

Sackville, NB

September 2021

- Awarded entrance scholarship upon admission at Mount Allison University.

CONTESTS

Data Challenge Competition

International Business and Entrepreneurship Centre (IBEC)

University of New Brunswick, NB

November 2025

- Selected to compete at the Data Challenge competition among the top 10 best performing teams.
- Competition sponsored and judged by quantitative analysts at Vestcor.

Northeast North America Regional Contest

International Collegiate Programming Contest

Sackville, NB

November 2021, November 2024

- Competed against leading universities in the Northeast North America region.
- Recognized as the top performing team from Mount Allison University at the competition.

Alberta Collegiate Programming Contest

University of Calgary

Sackville, NB

October 2024

- Competed in the Alberta Collegiate Programming Contest.

Atlantic Canadian Programming Contest Finalist

Science Atlantic, Acadia University

Wolfville, NS

October 2024

- Achieved 3rd place at the 2024 Science Atlantic Programming Competition.
- Recognized as the top performing team from Mount Allison University at the competition.
- Demonstrated advanced analytical and problem-solving skills in competitive programming.

RELEVANT COURSEWORK

Digital Twinning, Fluid Mechanics, Digital Signal Processing and Electronics, Artificial Intelligence, Advanced Data Structures, Cryptography, Discrete Structures, Systems Programming, Computer Networks, Object-Oriented Design, Database Systems, Data Science, Algorithm Analysis, Software Design, Data Structures and Algorithms I, Differential Equations, Multivariable Calculus, Linear Algebra, General Physics I, General Physics II, Data Visualization.

SKILLS

Engineering Proficiencies: CAD Software, 20-sim, MATLAB, 3D Printing, Mechanical Systems Analysis, Robotics, Electrical Troubleshooting, System Optimization, Soldering, Signal Processing, Control Systems, Project Management, Technical Documentation, Physics, Mathematics.

Programming Languages: Java, Python, C++, WebDev Languages (TypeScript, HTML, CSS, JavaScript).

Spoken Languages: Fluent in French and English.

Soft Skills: Problem-Solving, Communication, Teamwork, Leadership, Adaptability, Attention to Detail, Creativity, Conflict Resolution.

CERTIFICATIONS

Diversity, Equity and Inclusion Certificate

Canadian Centre for Diversity and Inclusion (CCDI)

Sackville, NB

September 2023

- Completed the Diversity, Equity, and Inclusion Certificate through the Canadian Centre for Diversity and Inclusion.
- Gained skills in promoting inclusive practices, addressing bias, and fostering diverse workplace environments.

Small Remotely Piloted Aircraft in Visual Line-Of-Sight (VLOS)

Transport Canada

Bathurst, NB

July 2019

- Certified to operate small remotely piloted aircraft within Visual Line-of-Sight (VLOS).
- Skilled in safe navigation and control of drones for various applications within VLOS guidelines.