

Mitch Roberts

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Experience

Web Developer

APPartment (Startup), St. John's NL

February 2024 – Current

- Built a full-stack rental management platform using Next.js (React) and Tailwind CSS.
- Developed dynamic features such as location-aware listings, calendar-based bookings, and modular components.
- Created map-based navigation and user geo-location features.

Software / Hardware Engineer

C-CORE, St. John's NL

January 2025 – April 2025

- Developed custom UART communication protocol in HDL and C
- Implemented protocols to ensure reliable communication between satellite subsystems.
- Contributed to ground station software for analog and digital signal processing.
- Mentored other interns, assigning tasks and reviewing progress.

May 2024 – August 2024

- Led development of custom communications subsystem of satellite, managing and assigning tasks to other members
- Created fake subsystems in Python and C for simulation and testing other subsystems
- Managed other junior co-op students in designing communication protocols

SI Leader / Lab Developer

Memorial University

Sep 2023 – Dec 2023

- Designed and delivered lab content for first-year engineering students.
- Created lesson plans and collaborated with faculty on lab objectives.
- Authored lab reports for structured student completion.

Projects

MUNStar-1 Satellite Team

munstar-1.com

Communication Subsystem Team Lead

- Led the satellite's communication subsystem development.
- Assigned tasks, integrated software and hardware components.
- Coordinated testing to ensure compatibility across subsystems.
- Working with other team leads to ensure the satellites success.

Education

Bachelor of Science in Computer Engineering

Expected 2026

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

Skills

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|--------------|---|
| Languages: | C/C#/C++, Python, JavaScript, TypeScript, VHDL |
| Web: | Next.js, React, Tailwind CSS |
| Tools: | Git, Microsoft Suite, VS Code, Quartus, ModelSim, Vitis, Vivado |
| Soft Skills: | Leadership, Communication, Teamwork |