



### EDUCATION

Bachelor of Electrical Engineering

Co-op, Class of 2026

Memorial University of Newfoundland

GPA: 3.8/4.0

### SKILLS

KiCAD, Altium Designer

LTSpice, PSpice

PCB Design, SMT Soldering

Oscilloscopes, VNAs, EMC Testing

Digital & Analog Circuit Design

RF & Filter Circuit Design

Python, C++, MATLAB

Microsoft Office Suite

### INVOLVEMENT

MUN Student Design Hub (SDH):

- SDH Board Student Advisor
- Working with professors, funders, and board members to improve student design and extra-curricular project opportunities at MUN

CanadianCancer Society:

- Relay for Life Participant since 2021, raising over \$1000 for cancer research

Tutoring:

- Tutor refugee children with the Association for New Canadians

### ACHIEVEMENTS

Scholarships:

- Entrance scholarships from the University of Waterloo, Queens University, and MUN
- J.M.C. Facey Engineering Scholarship, NL Electoral District Scholarship, Gov. of NL Research Inspired Student Enrichment (RISE) Award

Soccer:

- Feildians Provincial Soccer team, 2015 - Present
- Represented NL at the Canadian National Championships
- High school and provincial team captain

### EXPERIENCE

SOLACE POWER | MOUNT PEARL, NL | APR 2024 - PRESENT

#### **Hardware Design, Integration, and Testing Co-op**

- Designing, populating, testing, and debugging PCBs for wireless power transfer systems
- Designed LC filters to reduce noise in RF power circuits using Altium Designer and LTSpice
- Designed a current sense PCB that successfully provides overcurrent protection for systems
- Testing using oscilloscopes, EMI analyzers, VNAs, impedance analyzers, to improve system efficiency

MUNSTAR-1 CSA STUDENT TEAM | ST. JOHN'S, NL | SEPT 2023 – PRESENT

#### **CubeSat Electrical Power System Designer**

- Developed an inhibitor PCB to delay CubeSat power-up for the first 30 minutes post-launch, supplying DC power to all other subsystems after the 30 minutes

PARADIGM ENGINEERING | ST. JOHN'S, NL | JAN 2023 - PRESENT

#### **Team Lead and Electrical Hardware Designer**

Autonomous Karting Series: Creating an autonomous go-kart to compete in May 2025 at Purdue University, Indiana:

- Designed a PCB to safely regulate and distribute power from a battery for electrical system, and a control PCB allowing computers to communicate with mechanical components
- Designing a suitable racing system, selecting optimal components such as motors and batteries
- Conducting overall project management to maintain operational efficiency, guiding mechanical, electrical, software, and business sub-teams, optimizing team member utilization and maintaining a well-organized project timeline
- Principal liaison with sponsors and other stakeholders, raising over \$40,000

FITenth: Created an autonomous racing vehicle to compete in the FI Tenth competition. Placed top 10 in May 2023 in San Antonio, Texas:

- Soldered PCBs, wired various components
- Configured a system containing a LiDAR, motor controller, and NVIDIA Jetson GPU

NEWFOUNDLAND AND LABRADOR HYDRO | ST. JOHN'S, NL | AUG - DEC 2023

#### **Protection, Controls and Communications Electrical Co-op**

- Designed, reviewed, and created packages for generator excitation system upgrades
- Supported on-site construction and commissioning, created as-built drawings for new generator-exciter systems
- Interpreted, reviewed, and edited AC and DC schematics for various systems

TRAINING WORKS | ST. JOHN'S, NL | JAN – APR 2023

#### **Software and Project Developer Co-op**

- Developed an app and online platform for use by offshore workers to increase safety on-board as a part of the Canadian Supercluster: Fatigue Risk Mitigation Project

CAHILL TECHNICAL SERVICES | MOUNT PEARL, NL | MAY – AUG 2022

#### **Instrumentation and Controls Electrical Co-op**

- Designed, programmed, and wired a PLC-based system to automate the Churchill Falls underground heating control
- Installed and troubleshot PLC systems, wired systems, programmed Human Machine Interfaces, monitored and exported data for various systems using VTSCADA, created and interpreted drawings for PLC systems using AutoCAD

VERAFIN INC | ST. JOHN'S, NL | JUL – AUG 2021, JUL – AUG 2019

#### **Summer Internships: 2021, 2019**

- Learned to code using Python, assisted with programming operations
- Collected and uploaded customer data using Salesforce software