

# Fuad Ahmed

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## Education

### Memorial University of Newfoundland

St. John's, NL, Canada

Bachelor of Engineering Co-op – Mechatronics Engineering

Class of 2028

Director of Co-op – Engineering Society 'A'

## Experience

### Michelin

September 2025 – December 2025

Electrical/Automation Engineering Intern

- Programmed human-machine interfaces using Allen-Bradley PLC
- Prepared drawing packages and schematics for the installation of manufacturing machinery
- Conducted I/O testing and safety checks for sensors, cabinets and motors on new installations
- Designed and built a testing panel to power and control 480V and 120V motors

### Memorial University Student Design Hub

January 2025 – April 2025

Innovation & Prototyping Co-op

- Completed advanced training on CNC Milling
- Assembled, soldered, and tested microcontroller and power distribution PCBs
- Instructed students on 3D printing using BambuLab printers

### TechnipFMC

May 2024 – August 2024

Dynamic Analysis Engineering Intern

- Developed an Excel interface that decreased data extraction time by 50%
- Automated result extraction from internal Azure servers using Python
- Performed analysis on Subsea Umbilicals, Risers, and Flowlines using OrcaFlex

## Engineering Teams

### Paradigm Engineering

September 2023 - Present

Team Lead & Electrical Designer

- Leading a multidisciplinary team of 50+ students to develop a full-sized autonomous go-kart
- Designing an STM32-based auxiliary PCB to power and control an electric vehicle, including USB, UART and JTAG peripherals, an FDCAN peripheral and several voltage regulators
- Calibrating onboard controllers and GPS modules for autonomous navigation
- Designing a 10kW drivetrain for an electric vehicle, including batteries, relays, and e-stops
- Raising over \$35k in project funding through grants and sponsorships

### Memorial Baja Racing

January 2024 - Present

Electronics Lead

- Leading the design and implementation of the electronics for a Baja SAE Off-road vehicle
- Developing a custom ESP32-based ECU to transmit vehicle data over Bluetooth
- Developing and implementing custom electronics in compliance with SAE specifications

## Skills

- |                       |                     |                  |
|-----------------------|---------------------|------------------|
| - KiCAD               | - Allen-Bradley PLC | - 3D Printing    |
| - Altium Designer     | - PCB Design        | - CNC Machining  |
| - High Voltage Design | - Lab Bench Testing | - DELF B1 French |
| - Soldering           | - Inventor CAD      | - C++            |