

Fuad Ahmed

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Education

Memorial University of Newfoundland
Bachelor of Mechatronics Engineering
Director of Co-op – Engineering Society 'A'

St. John's, NL, Canada
Class of 2028

Experience

Solace Power

St. John's, NL, Canada

Advanced Research Electrical Engineering Intern

May 2026 – August 2026

- Designed, validated and delivered a 400W wireless charging system for autonomous drones.
- Assembled and tested RF and Wireless Power Transfer Systems for complex aviation applications.
- Modified high-voltage RF Systems for increased efficiency, thermal stability, and signal integrity.
- Tuned and tested MHz frequency resonant power converter and RF Power transmission PCBs.
- Board bring up and SMT soldering down to 0402 components.

Michelin

Pictou, NS, Canada

Electrical/Automation Engineering Intern

September 2025 – December 2025

- Programmed industrial machinery & HMIs using Allen-Bradley PLC.
- Produced drawings and led installation for a new 2nd-stage tire builder.
- Designed and built a custom panel to power and control 120VAC and 480VAC motors.

Memorial University Student Design Hub

St. John's, NL, Canada

Innovation & Prototyping Co-op

January 2025 – April 2025

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

Paradigm Engineering

St. John's, NL, Canada

Team Lead & Electrical Designer

September 2023 - Present

- Leading a multidisciplinary team of students to develop a full-sized electric autonomous go-kart.
- Designed custom power distribution PCBs using buck converters and necessary protections to distribute power from batteries to all onboard motors and sensors
- Designed a custom STM32-based PCB to control all onboard motors, actuators and remote e-stop, using USB, UART, SWD and CAN peripherals.
- Designed a 10kW drivetrain for an electric vehicle, including batteries, relays, and e-stops.
- Raised over \$45k in project funding through grants and sponsorships.
- Placed 2nd Overall at the AKS International Grand Prix 2025.

Formula MUN

St. John's, NL, Canada

High Voltage Systems Lead & Co-Founder

June 2026- Present

- Co-founded the team and led the tractive system design for a 250V FSAE electric race car.
- Designing and assembling a 250V battery pack with an 11-point shutoff circuit.
- Designing and integrating the inverter and custom drivetrain for a 100 km/h top speed.

Skills

Software: KiCad, Altium Designer, Schematic Capture & Layout, LTSpice, Matlab, C++, Python

Electronics: Analog & Digital Circuit Design, PCB Design, Power Electronics, Board Bring-Up, Soldering

Lab Testing: Oscilloscopes, Function Generators, Impedance Analyzers, Vector Network Analyzers