

# CAMERON LEWIS

## ELECTRICAL ENGINEERING STUDENT

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### SUMMARY

Electrical Engineering student at Memorial University with hands-on industry experience in PCB design, wiring harnesses, and embedded systems. Proven ability to deliver in fast-paced, multidisciplinary environments, with a strong foundation in hardware design, technical documentation, and cross-disciplinary collaboration.

### TECHNICAL SKILLS

Altium / KiCad	LTspice / PSPICE	C / C++   Python   MATLAB
PCB Design & Assembly	Oscilloscope & Logic Analyzer	Arduino IDE   Git
Analog & Digital Circuits	Onshape CAD	Soldering & Hardware Testing

### PROFESSIONAL EXPERIENCE

#### Electrical Engineering Student — Co-op

January 2026 – April 2026

Kraken Robotics Systems Inc. — Mount Pearl, NL

- Assisted in PCB design for subsea systems including Synthetic Aperture Sonar and Katfish ROTV, delivering designs that met manufacturability requirements across multiple product lines.
- Redesigned wiring harness layouts by incorporating signal integrity best practices and direct engineer feedback, reducing potential failure points in cable assemblies.
- Maintained technical documentation for 5+ products using PDM software, enabling accurate version control and streamlining design review approvals.

#### Electrical Team Member

September 2025 – Present

Paradigm Engineering — MUN Student Design Team — St. John's, NL

- Designed multilayer control PCBs integrating microcontrollers, power-management circuits, and voltage regulators using KiCad for an autonomous competition kart (AKS).
- Collaborated in a multidisciplinary team to ensure seamless hardware integration across mechanical and software sub-teams under competition deadlines.
- Contributed to the design and assembly of the Aux Control Board PCB, managing power distribution with LDOs, level shifters, and protection circuitry for the kart's electrical subsystems.

### PROJECTS

#### Thermal Camera

February 2026 – Present

- Designed and built a thermal imaging camera using an ESP32 and IR sensor array, outputting a real-time heat map for temperature visualization.
- In Development Phase.

#### Aux Control Board (Paradigm)

February 2026 – March 2026

- Designed a custom auxiliary control PCB managing power distribution with LDOs, level shifters, and protection circuitry across multiple rails.
- Validated board functionality through hardware testing, ensuring reliable multi-rail power delivery across all subsystems.

#### Digital Table Tennis Umpire

August 2023 – August 2024

- Co-developed a Python-based automated umpiring system with vibration sensors, achieving 3rd place among 60+ projects in a Verafin-hosted competition.
- Programmed sensors to detect net serves and ball bounces in real time, improving scoring precision and reducing human error.

### EDUCATION

#### Bachelor of Engineering (Co-op) — Electrical Engineering

2024 – Present

Memorial University of Newfoundland • Class of 2029 • GPA 3.8 • Dean's List 2024-2025

#### High School Diploma

2018 – 2024

Roncalli Central High School • Salutatorian • GPA 4.0 • Teachers' Academic Award

### ACHIEVEMENTS & INTERESTS

#### Table Tennis — Team NL

May 2025

Represented Newfoundland & Labrador at the Atlantic Tournament in Halifax, Nova Scotia, competing against all Atlantic provinces.