# **Cole Fuerth**

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#### **EXPERIENCE**

**University of Windsor** 

Jan. 2022 - Present

Windsor, ON

Research Assistant

 Assisted in research activities for the Department of Electrical and Computer Engineering at the University of Windsor for Dr. Bala Balasingam.

• Assisted MASc students in developing data collection tools for the study of Battery Management System (BMS) performance.

Centerline Ltd.

May. 2019 – Sept. 2020

Controls Engineering Technician

Windsor, ON

- Set-up and debugged industry-standard production machines.
- Programmed Rockwell PLCs, FANUC robots, and various other misc. industry devices.
- Integrated new industry devices with PLCs, such as date scribes, torque units, and cameras.

St. Clair College May 2018 – April 2020

Audiovisual/IT Support, Tutor

Windsor, ON

- Debugged classroom projectors and audio systems, repaired and assembled old or new audio devices, and supported any internal or external events.
- Worked in the tutoring department, tutoring programming (**C, C#, Java, Ladder**), Differential/Integral Calculus, Physics, Chemistry, and Electrical Circuit Design.

### **PROJECTS**

## **Electric Motorcycle**

- · Programmed and assembled an electric dirt-bike.
- Assembled using an Arduino Mega for control with C++, a touchscreen display, custom aluminum panels, isolated
  inputs and outputs, and all-custom power distribution and analog sensing, mounted on a stripped frame.
- This project was my capstone for Electronics Engineering Technology.

## **Electric Long-boards**

- Electronics enclosure designed and 3d printed, with custom wiring.
- Batteries are a completely custom design, built with 21700 Lithium cells.
- Won first place in the hardware category at WinHacks 2021, by passing telemetry over UART from the ESC to a Raspberry Pi.

## **EDUCATION**

### **University of Windsor**

Sept. 2020 - Present

BASc of Computer Science (Honours)

Windsor, ON

- Coursework: C/C++ Programming, Differential Calculus, Assembly, Python, Java, Data Structures & Algorithms, Systems Programming (Linux with C), Software Engineering, AI Concepts
- 89% Major Average; received Dean's List for most recent completed class year.

St. Clair College Sept. 2017 – May 2020

Electronics Engineering Technology, Associate Degree

Windsor, ON

- Coursework: DC and AC circuit analysis, analog signals processing, digital systems, C language and PLC programming, microprocessor, and micro-controller programming
- 3.9 Cumulative GPA; received the Student Leadership Award for graduating class year