Neel Bullywon

⌂ Waterloo, ON | ⧉ nebu0528.github.io | in Neel Bullywon | ☎ 416-XXX-XXXX | ✉ n2bullyw@uwaterloo.ca

SKILLS

Languages: C, C++, CSS/HTML, Java, JavaScript

Hardware: PCB Design, Arduino, PTH Soldering

Tools: Excel, Git, VS Code, Visual Studio, React

Certifications: Network Security Associate 1, Network Security Associate 2

PROJECTS

⌂ Covid-19 Distance Sensor   May - June 2021
An Arduino made using an LCD and Ultrasonic Sensor to locate a person's distance   *C++, Arduino.*

- Constructed a distance sensor using an **Arduino**, **LCD**, **Ultrasonic Sensor** and coded using **C++** to make a sensor that can locate a person's distance from the wearer.
- Locate a person's distance from the wearer within a **vicinity of 3 meters** and will activate **LEDs** or a **Piezo** based on the distance registered.
- Created a device meant to promote social distancing during this global pandemic and following a safe distance.

⌂ LED Cube   December-January 2020
3x3 LED Cube controlled by PICAXE-20X2 microcontroller   *PICAXE, PTH Soldering.*

- Built an LED Cube and implemented a **PIXACE-20X2 microcontroller** to hold the LED Pattern code using **PICAXE**.
- Implementing PICAXE-20X2 chip increased the speed of the LED Pattern by **20%** making it run smoothly with no issues.
- Developed skills in **PICAXE**, **soldering PTH components** giving me experience into the electrical and computer engineering field.

⌂ Task Manager   July 2021
***React** web application made to organize daily tasks or events*   *Node.js, React, Heroku.*

- Created an application using **Node.js** and **React** and **React hooks** to create an HTTP website.
- Implemented **React Icons** and **styled components** to create a dynamic UI/UX.
- Deployed website using **Git** commands and hosted via **Heroku** which increased the speed of the site by **20%**.

🔧 Christmas Tree LED   November-December 2019
A PCB Designed by me in the shape of a Christmas Tree   *PCB Design, PTH Soldering.*

- Designed **PCB** and **etched copper** from scratch.
- Soldered **PTH components** and implemented **IC1-4093 chip** to configure LED sequence.

WORK EXPERIENCE

💼 Active Green and Ross   Mississauga, ON
Junior Mechanic   *January-March 2020*

- **Worked under immense pressure** while providing **excellent customer care** service Ie. Handled enquirers.
- Developed **great communications skills** by communicating with co-workers effectively and given many opportunities to **embrace leadership** I.e., planning out plans for tire and oil changes.
- Processed information from forms given and inputted them into **Excel** and onto the database.

💼 FX LAT Club   Mississauga, ON
French Tutor   *September-June 2021*

- Assisted in developing a French tutoring program to help students struggling with French.
- Collaborated with a dozen students on the club and created this club as a final product.
- Provided tutoring for those in need in school and outside of that for all ages.
- Conducted a survey and all my students increased their average by **10%** under my tutelage.

EDUCATION

University of Waterloo   **Waterloo, ON**
Bachelor of Applied Sciences BASc Electrical Engineering   *Anticipated 2026*