

Carita Chung

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SKILLS

Languages: (C++, C, Python, JavaScript, HTML/CSS, LaTeX, SQL)

Tools: (Git/GitHub, React, Bootstrap, Linux, Eclipse, Visual Studio Code, Microsoft Excel)

Design: (Fusion 360, Figma, Adobe Illustrator/Photoshop/Premiere Pro, Canva, CorelDRAW, AutoCAD)

EXPERIENCE

Project Designer and Instructor, *The STEAM Project* May 2021 – Aug 2021

- Developed and tested two RC Arduino cars using **nRF24** radio, **L298N** motor, and **Arduino** libraries
- Researched the implementation of HC-05 **Bluetooth** modules in Arduino to reduce material costs
- Optimized files for laser cutting and 3D printing using **CorelDRAW** and **AutoCAD**
- Trained new employees the manufacturing process and to teach young children coding

Peer Tutor, *York Mills Collegiate Institute* Nov 2018 – Jan 2020

- Collaborated with teachers to provide 1 on 1 support to high-school students
- Explained math and science concepts to help two students improve their average by at least **6%**

PROJECTS

RePLACE it!, *Submitted to SheHacks V*

- Built a writing assistant that replaces non-assertive phrases with assertive ones to help students strengthen their professional writing
- Created the chrome extension using **HTML/CSS**, and **JavaScript**

Recipely, *Submitted to HackTheNorth 2020++*

- Designed UI for a web application using **React** and **Figma** that suggests food substitutions for those with dietary restrictions
- Implemented Edamam **API** and used **JavaScript** and **JSON** files to store user data

Brick Breaker Game

- Effectively wrote an algorithm in **Python** to generate a GUI and game logistics for Brick Breaker
- Identified and repaired bugs; optimized the code to reduce compiling time by **23** seconds

Arduino Uno Kitchen Timer

- Utilized **Arduino Uno** board and the Arduino core library to create a kitchen timer that can count down from up to **99** minutes

Bus Schedule Display

- Applied self-taught concepts of **IoT** to create a live bus schedule display using a **WEMOS D1 mini WiFi controller board**, **NextBus REST API**, and **Arduino** libraries

EDUCATION

University of Waterloo, 2020 – 2025
Honours Electrical Engineering (BASc.)

- President's Scholarship Recipient, **3.8 GPA**
- Relevant Courses: Fundamentals of Programming, Algorithms and Data Structures, Linear Circuits, Digital Circuits and Systems

AWARDS

Colin Hood Award, Jun 2020
Ontario Federation of School Athletic Associations

- Award for leadership and commitment to the school's sport success; recognized provincially