

Ryan Chan

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Electrical and Computer Engineering
3.82 – Cumulative GPA

Expected May 2023

Relevant Courses: Object-Oriented Programming & Data Structures (A-), Electromagnetism (A), Digital Logic & Computer Organization (A), Introduction to Circuits (Fall 2020, still have to finish a few labs in-person because I took semester remotely), Signals & Information (will take in Spring 2021), Embedded Systems (will take in Spring 2021)

Honors/Awards: Cornell Tradition Fellowship

EXPERIENCES

Engineering World Health Project Team, Cornell University **Sept. 2020-Present**

- On the electrical sub-team of a project team that develops technology-based health solutions for low-resource communities.
- Currently building a low-cost and non-invasive prosthetic arm control interface for a prosthetics company
 - Designed most of the Printed Circuit Board (PCB) and wrote part of the software using C++

Organic Robotics Lab, Cornell University **Jan. 2021-Present**

- Recently joined a lab that conducts research in soft robotic technology
- Developing the high-voltage circuitry and code for electrohydraulic (HASEL) tentacle actuators

Cornell Makeathon, Cornell University **Feb. 2020**

- Collaborated with a small team to build a magnetic, autonomous, and Bluetooth-connected whiteboard eraser robot
- Secured first place in the makeathon.

Cornell Dining, Cornell University **Jan.-Mar. 2020**

- Learned to perform tasks and communicate efficiently in a fast-paced work environment.

Financial Research, Quinnipiac University **2018-2019**

- Used Python skills to help a professor at Quinnipiac University conduct financial research.
- Wrote a script that filters out bots in a dataset, a script that compares the similarity of patents, and a web scraper that downloads files from the US Securities and Exchange Commission website.

PERSONAL PROJECTS *(More on website)*

Tic-Tac-Toe on a Business Card **Dec. 2020-Present**

- Currently developing a PCB business card that can play the classic game of tic-tac-toe using an ATmega Microcontroller

Personal Microcontroller **Aug.-Sept. 2020**

- Developed microcontroller boards similar to Arduino boards, but with modifications to suit my own preferences.

Gesture Controlled Lock **Jul.-Aug. 2020**

- Assembled and led a team over summer break to build a contact-less lock that uses basic hand gestures to enter the passcode to open a garage door

YouTube Channel **2016-2020**

- Post videos of some personal electronic projects and tutorials.
- Have accumulated over 90k total views and have had some projects featured on Arduino social media and Hackaday

SPECIALIZED SKILLS

Coding: Python, Java, Arduino, C/C++, JavaScript, Verilog, HTML/CSS

CAD: PCB Design (Autodesk EAGLE, Altium Designer), 3D Design (Autodesk Fusion 360)

Others: Git, Adobe After Effects