

Connor Chen  
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## EDUCATION

**Cornell University**, Ithaca, NY

**August 2020-Present**

Major: Computer Science Minor: Applied Economics

Coursework: Intro to Backend Development, Python Computing, Object-Oriented Programming & Data Structures, Multivariable Calculus, Linear Algebra, Physics Mechanics & Heat, Physics Electromagnetism, Engineering General Chemistry, Nanoscience & Nanoengineering

GPA: 3.871

## ACTIVITIES AND VOLUNTEER

**Cornell University ChemE Car Electronics Subteam**, Ithaca, NY, *Member*

**November 2020-Present**

- Responsible for engineering all electronic components for the electricity-powered cars and building custom circuits that allow for steady power supply to the motor that can be cut off at the right time
- Researched new ways to optimize data collection and car modeling
- Code Arduino to stop power to motors based on photodiode signal

**Cornell Computer Reuse Association (CCRA)**, Ithaca, NY, *Member*

**October 2020-Present**

- Repurposed and donated computers and other computer-related technology to humanitarian organizations in the developing world, the local Ithaca community, and elsewhere

**Zambia Community Education Initiative (ZCEI) at Cornell**, Ithaca, NY, *Member*

**October 2020-Present**

- Helped build a high school in Zambia in partnership with the Chisekesi community to support the rural communities and promote education, health, social, and economic development

**Project MILO**, Syosset, NY, *President*

**September 2016-June 2020**

- Spent 200+ hours collecting, repairing, and donating computers to those in need of access to computers, such as The Center for Developmental Disabilities and nursing homes
- Assigned roles and responsibilities to each member and setup a platform for members to communicate effectively

## ACHIEVEMENTS

**National Merit Finalist**

**February 2020**

- One of about 15,000 students nationwide chosen based on abilities, skills, and accomplishments

**Achievement Award in Engineering at Long Island Science Congress**, Melville, NY

**June 2018**

- Recognized at regional research competition for my project Production of a Water-Retentive Concrete

## RESEARCH

**Production of a Water-Retentive Concrete**, Syosset, NY, *Independent Researcher*

**September 2017-June 2019**

- Tested the effects of silica gel and talc powder on concrete properties to create a strong, durable, and water-retentive concrete with the idea of mitigating the Urban Heat Island Effect through evaporative cooling
- Used t-tests and ANOVA to analyze the significance of silica gel and talc on concrete properties, such as water absorption, water evaporation, and compressive strength

**Steven Institute of Technology ECOES (Pre-College)**, Hoboken, NJ, *Student Researcher*

**July 2019**

- Conducted concussion research using precise sensors, football helmets with varying amounts of padding, and a pendulum hammer impact test apparatus
- Learned about various types of engineering and science from field professionals

## SKILLS

- Proficient in Java and Python
- Experience using Flask framework, SQLite, SQLAlchemy, Docker, Postman, and deployment using Heroku
- Python Side Projects: Hangman game with graphics and sounds using pygame, Instagram auto-like bot using selenium, and basic discord bot using discord.py
- Have basic experience in Microsoft Office Applications, including Microsoft Word and Microsoft Excel
- Able to adapt to new working environments easily and works hard at the task(s) at hand