

Tyler Bisk

Current: 211 Linden Ave Unit 1, Ithaca, NY 14850
Permanent: 17 Goodhart Drive Livingston, NJ 07039
Portfolio: <http://www.tylerbisk.com>

cell: +1 (973) 738-7722
email: tjb274@cornell.edu
LinkedIn: <http://www.linkedin.com/in/tylerbisk>

EDUCATION

Cornell University, College of Engineering | Ithaca, NY Expected Graduation: May 2023
Bachelor of Science Electrical and Computer Engineering / Computer Science **GPA: 3.81/4.00**
Relevant Coursework: Calculus, Physics, Circuits, Digital Logic, Object Oriented Programming, Discrete Structures **Dean's List**

PROJECTS

iOS App Development Summer 2020-Present

- Developed and designed the frontend, UI, and backend of two iOS applications
- Self-taught expertise in Swift and XCode for iOS
- Launched a multiplayer game to the App Store and plan to finalize and launch a social media app

Cornell Racing Formula SAE – Electrical Subteam Fall 2019-Present

- Exclusive student-led team whose mission is to design and build an electric racecar for international competition
- Collaborate with tight knit subteam of students to invent, test, innovate, and integrate the electrical system
- Designed a PCB to prevent batteries from overheating that automatically shuts down the racecar
- Creating an analog shutdown system that cuts current to the accumulator if certain safety conditions are absent
- Building a digital dashboard for the car and developing firmware for it
- Consistently dedicate 10+ hours per week to ensure the electrical system is in complete working order for competition

WORK EXPERIENCE

Teaching Assistant for ECE 1210: Computing Technology | Ithaca, NY Jan 2021-present

- Assist students on course material including FSMs, cache/memory, pipelining, and digital logic
- Answer questions on digital labs in which students build an ALU, register files, flip flops, PC, and muxes
- Grade student assessments, homework, and labs
- 10 hours per week

AWARDS & CERTIFICATIONS

Dean's List at Cornell University Fall 2019, Fall 2020*

- College of Engineering

*Not offered in Spring 2020

High Voltage Compliant 2019-2021

- Certified to safely work and handle High Voltage ($\geq 60V$ DC)

Cornell Machine Shop Certified October 2019

- Learned to use both a mill and a lathe
- Built a fully functioning lamp as part of the certification process

International Baccalaureate Diploma Recipient May 2019

- Completed 6 IB-level classes; 3 higher-level 3 standard-level
- Took 2 years of Theory of Knowledge
- Wrote an IB Extended Essay titled "Amazon's Use of Technology and Convenience in Order to Succeed in the Retail Industry in America"

SKILLS

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- **Software:** Altium (PCB Design), XCode, Quartus, Autodesk Inventor (CAD), Adobe Photoshop, Adobe Premiere Pro
 - **Programming:** Python, Java, Swift, C, OCaml, MATLAB, Verilog (HDL), HTML, CSS
 - **Hardware:** Board bring-up, Breadboarding, Microcontrollers, PCB testing, board verification, Cortex-M0+

ACTIVITIES

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- Tennis, Filmography, Photography, Cooking, Technology