Tyler Bisk

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY   **Expected December 2022**
Bachelor of Science in Computer Science
Minor in Electrical and Computer Engineering
GPA: 3.89; Dean's List All Semesters
Relevant Coursework: Embedded Systems, Design with Microcontrollers, Computer Organization, Computer Vision, Algorithms, Intelligent Robots, Operating Systems

Newark Academy, Livingston, NJ   **May 2019**
GPA: 4.05
International Baccalaureate Diploma Recipient

RELEVANT EXPERIENCE

Cornell Racing – Formula SAE Electric, Ithaca, NY, *Electrical Team Lead*   **September 2019 – Present**
- Responsible for the organization, testing, and integration of the low voltage systems for an electric racecar
- Oversee and contribute to six student-designed boards, including an ECU, safety shutdown circuit, fusebox, and dashboard
- Wrote and debugged all firmware for throttle, indicators, and start/stop conditions
- Consistently dedicate 20 hours per week problem-solving, innovating, and teaching

Tesla, Inc., Palo Alto, CA, *Battery Project Integration Intern*   **Planned May – August 2022**
- Will be working with the Battery Systems Engineering team to design battery packs
- Plan to bring my Electrical and Computer Engineering perspective to team of mechanical engineers
- Hoping to gain industry experience in practices ranging from module construction to programming a BMS

Advanced Micro Devices, Inc. (AMD), Remote, *Silicon Design Engineering Intern*   **May – August 2021**
- Worked at the Cores Physical Design group doing computer architecture for x86 microprocessors
- Contributed to increasing clock speed on next-generation Ryzen CPUs
- Worked to eliminate clock skew and minimize hold time in the branch prediction unit

Cornell University, Ithaca, NY, *Undergraduate Teaching Assistant*
ECE 4760, Digital Systems Design Using Microcontrollers   **Planned August – December 2022**
- Mastery of course material including C programming, electronic design, and embedded control
ECE 2300, Digital Logic and Computer Organization   **August – December 2021**
- Mastery of course material including transistor network design, FPGAs, pipelining, and memory hierarchy
ECE 1210, The Computing Technology Inside Your Smartphone   **January – May 2021**
- Mastery of course material including FSMs, instruction sets, assembly, Boolean algebra, and digital logic

AWARDS

Tau Beta Pi National Engineering Honor Society, New York Delta Chapter, *Junior Year Admit*   **April 2022**
Dean's List, Cornell University; College of Engineering   **All Semesters**

SKILLS

Programming Languages: Python, Java, C++, C, MATLAB, OCaml
Hardware: PCBs: Schematics, Layouts, Manufacturing, Testing; Soldering, Breadboarding
Programs: Altium, XCode, Quartus, Arduino