

Kyle Betts

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EDUCATION:

Cornell University, College of Engineering, Ithaca, NY Expected May 2022
Bachelor of Science in Electrical and Computer Engineering; Computer Science Minor, Dyson Business Minor for Engineers.
GPA: 3.98; Dean's List Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019 & Fall 2020, Fall 2021.

Relevant Courses: Object-Oriented Programming & Data Structures, Data-Driven Web Applications, Computer Networks & Telecommunications, Fundamentals of Machine Learning, Foundation of Robotics, Intelligent Physical Systems, Embedded Systems.

Select Project Experience

Robotic Air Hockey Player, Embedded Operating Systems

- Engineered an air hockey robot opponent powered by a Raspberry Pi and Python capable of strategically attacking and defending.
- Assembled an H-Bot movement system using two stepper motors and used OpenCV for tracking the position of objects.

Maze Traversing and Mapping Robot, Intelligent Physical Systems

- Collaborated all semester with four other students to build an Arduino Uno robot that transverses a maze using a depth-first algorithm.
- Utilized an RF transmitter to send the layout of the maze to a FPGA, which in turn displayed the maze on a monitor using Verilog.

PROFESSIONAL SOFTWARE DEVELOPMENT EXPERIENCE:

Ava Labs

Associate Developer

Ithaca, NY

Spring & Summer 2021

- Contributed to the design and development of an ERC-20 asset bridge connecting the Avalanche and Ethereum blockchains.
- Expanded the Avalanche JS library with new health check commands for Avalanche node APIs.
- Produced an API that interacted with checkout.com for processing credit card and balance payments for an NFT marketplace.

Jamex Inc.

Software Engineer Intern

Ithaca, NY

Summer 2019 & 2020

- Designed and developed a wireframe for a new touch screen POS terminal user interface using C++ and Qt (QML).
- Implemented an API in C++ for initializing transactions, canceling transactions, retrieving student balances and more.
- Presented weekly progress reports for each of my projects to the head of engineering and the managing director of Jamex.

LEADERSHIP EXPERIENCE:

Cornell Men's Ice Hockey

Captain

Ithaca, NY

Fall 2017 – Present

- Engaged in 20+ hours a week of training, practice, and games at the NCAA DI level while balancing a rigorous engineering course load.
- Exhibited teamwork by mentoring 2-3 freshman each year and contributing to three consecutive Ivy League championships.
- Represented Team Canada twice at the U19 World Jr. A Championship, winning the gold medal once.

Select Athletics Awards

ECAC Student Athlete of the Year Award 2020-2021

- Awarded to the top scholar-athlete in the conference as voted by the coaches of each ECAC team.

Joe DeLibero-Stan Tsapis Award 2018-2019

- Exemplified the skilled efficiency, unselfish dedication, and hard-nosed competitive qualities of DiLibero and Tsapis.

Cornell University Teaching Assistant

Computing Technology Inside Your Smartphone

Ithaca, NY

Spring 2019

- Aided a class of more than 80 students during office hours and in-class exercises by helping the students conceptually understand problems and advising students on how to approach certain problems.
- Graded and provided feedback on homework sets and exams while working cooperatively with a team of five other TAs.

CAMPUS INVOLVEMENT:

Red Key Athlete Honor Society

Member

Ithaca, NY

Spring 2019 – Present

- Participated in service events with the goal of fostering connections between Cornell athletics and the Ithaca community.
- Nominated by coaches for displaying tremendous leadership, exhibited integrity and responsibility within the varsity program, while showing a commitment to academics and community service.

Tau Beta Pi Engineering Honor Society

Member

Ithaca, NY

Spring 2020 – Present

- Inducted into the society for being in the top 12.5% of the College of Engineering Class of 2022 for cumulative GPA.

Quill & Dagger Senior Honor Society

Member

Ithaca, NY

Spring 2020 – Present

SKILLS & INTERESTS:

- Skills:** Python, JavaScript, C++, C, HTML, CSS, Java, Linux, Git, OpenCV, Verilog, ROS, MATLAB.
- Interests:** Cloud Computing, Robotics, Machine Learning, Don Juan Water Filter Project, Tennis, Fantasy Football.