

Jason Vega

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Education

University of California, San Diego

September 2018 – June 2022 (expected)

B.S., Cognitive Science (Machine Learning and Neural Computation)

Experience

President, Project Manager, Programming Mentor, FalconX Robotics, Pleasant Hill, CA (5/17-5/18)

- Managed a team of 35 high school students who designed, fabricated and programmed a 120 lb. industrial-sized robot to participate in the F.I.R.S.T. Robotics Competition within a six-week time frame.
- Single-handedly developed and taught a series of lessons to introduce programming basics and OOP using C++ and Java to new students, complete with slideshows, assigned readings, demo code and exam.
- Promoted student outreach and diversity resulting in a growth of 133% in active student membership from first year; 66% of members were new underclassmen, and 40% of members were female.

Academic Intern, UC Berkeley Computer Science Department, Berkeley, CA

(1/18-5/18)

- Engaged with students in an introductory computer science course during lab and office hours to help with homework, lab assignments, and exam prep. The course was taught using Python, SQL and Scheme.

Academic Projects

F.R.C. 2018 Robot

github.com/FalconX-Robotics/frc2018

- Contributed to the development of code for a F.I.R.S.T. Robotics Competition robot using Java and the WPILib API.
- Programmed the drivetrain to autonomously move a desired distance and turn at a desired angle.

Scheme interpreter (CS 61A)

- Built an interpreter for a subset of the Scheme language using Python.
- Features include support for tail calls, dynamic scoping and macros.

Startup Projects

Personal website

jason-vega.github.io

- Developed my own personal website using HTML and CSS.

Skills & Activities

Technical: Python, Java, C++, SQL, HTML/CSS

Activities: Violin