

EDUCATION

University of California, Berkeley

Bachelor of Science, Electrical Engineering and Computer Science (EECS)

Minor, Mechanical Engineering

Berkeley, CA

May 2018

Cumulative GPA: 3.84

SKILLS/HONORS

Programming: Python, C, ROS, Java, Matlab, OpenCV, Linux, Arduino

Software: Cadence, Solidworks CAD, AutoCAD, MS Office

Honors: Dean's List Spring 2015, Tau Beta Pi Member

PROJECTS

Domino Playing Robot

Design and Development

Berkeley, CA

October 2016 – Present

- Worked in small group to make a Baxter (industrial robot) independently play dominos against human opponent.
- Drove progress in multiple areas to incorporate and integrate computer vision, AI modeling, and robotic motion planning components.

Quadrocopter Vehicle Tracker

Design and Manufacturing

Berkeley, CA

September 2016 – Present

- Planned and designed vehicle chasing system which uses AI controlled quadrocopter to cooperate with ground vehicle to follow human controlled car in small project team.
- Using computer vision and an open source UAV API on Linux companion computer to create final product.

Speech Driven Vehicle

Design and Manufacturing

Berkeley, CA

March 2016 – May 2016

- Designed and assembled small voice-controlled robot which moves based off various chosen commands
- Facilitated creation and integration of microphone front end circuits, PCA based voice control, and motor actuation and control in small group.

EXPERIENCE

Ekso Bionics

Mechanical Engineering Intern

Richmond, CA

January 2016 – May 2016

- Individually built or rebuilt top level assemblies for current Ekso Bionic Suit to conform with up-to-date bill of materials management system.
- Completed independent design and fabrication assignments over course of academic semester.

University of California, Berkeley

Lab Assistant

Berkeley, CA

August 2016 – Present

- Lab assist for EE 16b (Information and Systems Design) weekly laboratory sections, working with and guiding students to build basic ADCs, DACs, project vehicles and more.
- Assist and provide feedback to improve new course and help influence more students to study electrical engineering.

UAVs @ Berkeley

Project Team Member

Berkeley, CA

February 2016 - Present

- Contributed to group's initial effort to establish awareness for UAV flying on campus, build days, and fly days.
- Presently work on project teams, and two self-built quadrocopters made for personal use and research.

UC Berkeley Supermileage Team

Design and Fabrication

Berkeley, CA

August 2014 – September 2015

- Part of small (10-20 person) team which designed and built a unique high-mileage vehicle to compete in Detroit.
- Contributed to design/manufacturing of parts and wiring for car and homemade CNC router.