## Education

* University of California, Los Angeles; Los Angeles, California
  + Physics with Statistics minor, anticipated Bachelor of Sciences, 2021

## Skills

* Coding background- Python, C/C++, Bash, VBA, Mathematica, ROS
* Design- Solidworks, AutoCAD Inventor
* Assembly, Integration, and Test
* Requirements management
* Model-based systems engineering
* Project management and design
* IoT sensor networks
* Prototyping
* GNURadio
* CubeSat RF Engineering
* HAM system design
* Data analysis- R, pandas
* Statistical model building

## Major Activity Background and Work Experience

## Bently Nevada

Intern, Systems engineering Team; June 2019-Sept. 2019

* Worked on development of Orbit 60, Torque, and Ranger Pro conditional monitoring platforms
* Formulated functional architecture flowdowns and managed requirements
* Developed tools to grade existing requirements for testability
* Served as primary contact and translator for Chinese-side systems engineering team

## UCLA Smart Grid Energy Research Center (SMERC)

Student Researcher; February 2019-Present

* Reviewed academic and private research for potential development paths
* Researched knowledge transfer system for testing of ML-driven smart insurance adjustment
* Developed prototype electric vehicle charger in compliance with ISO 15118 standards
* Designed delivery drone with ROS and CAD tools to support CAEV objectives
* Used TensorFlow and LIDAR for ADAS object detection

**UCLA EPSS**

Student Researcher; November 2019- Present

* Developed radiometric temperature sensors using SDR technology and GNURadio
* Modeled Martian surface to predict RIMFAX data prior to deployment
* Enhanced Perseverance Rover capabilities with instrument modifications

## Bruin Spacecraft Group

Lead Communications Engineer, RAPID- URSa mission; June 2019-Present

* Led planning and development of space-based S-band cubeSat communications system
* Secured data transmissions in conjunction with Command and Data Handling team
* Assisted systems team in development of system model using MagicDraw

Project Manager, Overseer; June 2018- Present

* Assisted development of component systems for high altitude ballooning operations
* Taught Solidworks, machining, and systems engineering skills to inexperienced members
* Improved design for 452% more mass and 121% more flight duration from previous launches
* Led high-level systems management in accordance with technical specifications
* Organized and executed design reviews and team meetings

Lead Systems Engineer, Reach; Nov. 2017- June 2018

* Led development and management of requirements with project leadership
* Coordinated development of subsystems in accordance with testing and integration procedures