## Education

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

## Skills

* Coding background- Python, C++, Bash,

VBA, R, Mathematica, ROS

* Design- Solidworks, AutoCAD Inventor
* Requirements management
* Assembly, Integration, and Test
* Machining and 3D printing
* Project Management and Design
* Model-based systems engineering
* Machine Learning for ADAS
* CubeSat RF Engineering
* HAM system design
* Systems engineering

## 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
* Helped formulate functional architecture flowdown and manage requirements
* Developed tools to grade existing requirements for testability
* Served as primary contact and translator work with Chinese-side systems engineering team

## UCLA Smart Grid Energy Research Center (SMERC)

Student Researcher; February 2019-Present

* Reviewed academic and private research for potential future development paths
* Designed multi-sensor rover system for ADAS testing
* 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

**UCLA EPSS**

Student Researcher; November 2019- Present

* Developed radiometric temperature sensors using RTLSDR technologies
* Modeled Martian surface to predict RIMFAX data prior to deployment
* Enhanced Mars 2020 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 requirements and model-based systems engineering

Project Manager, Overseer; June 2018- Present

* Assisted development of Mechanical and Software systems for high altitude ballooning operations
* Taught Solidworks, machining, and systems engineering skills to inexperienced members
* Improved design for 352% more mass and 100% more flight duration from previous launches
* Supervised top-level design and build process to improve launch and recovery rates
* 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 of requirements and documentation with project leadership
* Coordinated development of subsystems in accordance with testing and integration procedures
* Led Systems meetings to discuss development progress and future steps of project