## Education

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

## Skills

* Language background- C/C++, Bash, Java, Python 3, R
* Python libraries- Pandas, Numpy/Scipy, Jupyter Notebook, OpenCV, PyTorch
* Microsoft Office Suite
* 4nec2
* VBA macro automation
* Git
* Linux/Unix Operating systems
* GNURadio
* Robot Operating System (ROS)

## 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 condition monitoring platforms
* Developed VBA tools to grade existing requirements for testability
* Formulated functional architecture flowdowns and managed requirements
* Coordinated with software and data management teams to refine system requirements

## UCLA Smart Grid Energy Research Center (SMERC)

Student Researcher; February 2019-Present

* Researched knowledge transfer system for testing of Machine Learning-driven smart insurance adjustment
* Designed delivery drone with ROS and CAD tools to support lab objectives
* Used PyTorch and OpenCV to design autonomous driving framework
* Optimized and documented existing body of code for improved readability

**UCLA EPSS**

Student Researcher; November 2019- Present

* Developed and optimized radiometric temperature algorithms using SDR technology and GNURadio tools
* Modeled Martian surface to predict RIMFAX data prior to instrument deployment on Mars
* Enhanced Perseverance Rover capabilities with instrument capability supplements

## Bruin Spacecraft Group

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

* Developed space and ground-based S-band cubesat communications system software
* Secured data transmissions in conjunction with Command and Data Handling team
* Developed cubesat communication system testing software with SDR technology and GNURadio tools
* Assisted systems team in development of system model using MagicDraw and UML

Project Manager, Overseer; June 2018- Present

* Assisted development of software systems for high altitude ballooning operations
* Taught fundamentals of python and git skills to inexperienced members
* Established long-term software framework for future development
* Served as git manager for club repository
* Met with subteam leadership to define software development goals
* Co-designed and launched particle-science based large dataset experiment with sister project