

38596 U.S. 6, E301, Avon, CO 81620 · Willing to relocate

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Data analyst and data scientist with experience at SpaceX as a dynamics analyst, and writing software to perform quick and reliable flight and test data analysis. Graduate of Harvey Mudd College with distinction. Looking to solve problems that have a significant impact on the day-to-day lives of humans across a diverse range of socioeconomic backgrounds.

Education

Harvey Mudd College Claremont, CA

B.S. IN ENGINEERING, GPA:3.62

Fall 2010 - Spring 2014

• Tau Beta Pi Engineering Honor Society- Awarded to top 20% of engineers.

• Dean's List: Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2014, Spring 2014.

Engineering Experience

Satcom Resources Avon, CO

SOFTWARE ENGINEER

June 2016 - Present

• Improving the speed and reliability of orders through software automation.

Hawthorne, CA

DYNAMICS ENGINEER April 2015 - December 2015 • Doubled the reliability and halved the time of test specification creation by designing and implementing a data analysis and data visualization software package using mainly Python, Pandas and Numpy. This allowed engineers to work with large data sets more efficiently, which led to

- more accurate test specifications. Deployed Python package to production level Pip accessible repository with continuous deployment, automatic testing, and automatic documentation generation using Bamboo, PyLint, Tox, and Sphinx.
- Decreased review time of technical documents by deploying a Jupyter Notebook application to AWS GovCloud. This created a sharable and easily accessible and followable document for dynamicists to use the Python package's data structure, math utilities, data aggregation tools, and data visualization sub-package.
- Ensured all vibration susceptible components were safe for Flight 21(the first rocket to land successfully) by writing Python scripts that queried thousands of vibration tests and checked against new testing standards.
- · Mitigated component susceptibility to high frequency dynamics by working with designers, predicting vibration and shock environments through data aggregation of test and flight data, and implementing vibration tests to qualify hardware before flight.

SpaceX Hawthorne, CA

DYNAMICS INTERN

May 2013 - November 2013

- Determined shock and vibration environments for propulsion, avionic, and structural components on the Falcon 9 rocket and Dragon capsule. Followed by assisting with the testing and verification of these component environments.
- · Improved accuracy of shock environments by implementing and analyzing several large scale shock tests to determine shock susceptibility of components.
- Improved speed and reliability of data reviews by developing automated reports in Matlab.

eSolar Inc. Burbank, CA

MEMBER OF 6 PERSON TEAM

Fall 2013 - Summer 2014

- · Designed, built, and tested a data acquisition and instrumentation package to measure wind loads on heliostats.
- Wrote end-to-end code to process force data on heliostats that streamed live data from a sensor network into a database, synced timing from multiple data sources, processed data to extract noise and and presented the data in useful and interactive visualizations.

Skyline Eco-Adventures Claremont, CA

MEMBER OF 5 PERSON TEAM

Fall 2014 - Winter 2014

- Developed prototype of adjustable braking trolley to control velocity of zipline participants.
- · Wrote trolley simulation code in Matlab that allowed the team to effectively evaluate design alternatives.

Leadership Experience

McGaw YMCA Fremont, MI

PROGRAM DIRECTOR

February 2014 - October 2014

- · Supervised and evaluated 60 staff members per session and fostered appropriate behavior and growth of 200 campers per session, smoothly and safely for 6 sessions with camper, parent, and staff satisfaction above 90%.
- · Trained and developed about 100 staff members through a summer long training and development programs.
- Achieved highest return rate for campers the following summer in history of the camp, indicating all time high satsifaction.
- Organized staff and camper cabin assignments, weekly staff time off and activity assignments, weekly camper activity signups, onsite camping for every cabin, and weekly special programs.

Vail Resorts Vail, CO

Ski Instructor Winter 2014, Winter 2015

• Achieved PSIA Level 1, 2, and most of 3. In top 20 instructors to attend training.

Skills

Programming Python(w/ Pandas, NumPy, scikit-learn, Jupyter/IPython), C++, Matlab, Git, Simulink, JavaScript, HTML, CSS, PHP, LabView. Certifications PSIA Alpine Level 2, PSIA Childrens Specialist 1, NOLS Graduate, PADI Open Water.

KYLE SIEGEL · RÉSUMÉ AUGUST 10, 2016