

Kyle Siegel

EXPERIENCED ANALYST · DATA SCIENTIST · MANAGER

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

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Data analyst and manager with experience at SpaceX as a dynamics analyst, and the YMCA as a Program Director. Graduate of Harvey Mudd College with distinction. Looking to solve problems that have a significant impact on the ski industry.

Education

Harvey Mudd College

B.S. IN ENGINEERING, GPA:3.62

- Dean's List: Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2014, Spring 2014.
- Tau Beta Pi Engineering Honor Society- Awarded to top 20% of engineers.

Claremont, CA

Fall 2010 - Spring 2014

Engineering Experience

Satcom Resources

SOFTWARE ENGINEER

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

Avon, CO

June 2016 - Present

SpaceX

DYNAMICS ENGINEER

- Determined a purpose, vision, and roadmap to overhaul the internal software tools for the Dynamics group, and implemented the tools while continuously soliciting feedback and building in new features.
- Doubled the reliability and halved the time of test specification creation by designing and implementing a data analysis and data visualization software package.
- Decreased review time of technical documents by deploying a web application that allowed engineers to create a sharable, easily accessible and followable document.
- 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.

Hawthorne, CA

April 2015 - December 2015

SpaceX

DYNAMICS INTERN

- Determined shock and vibration environments for propulsion, avionics, 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.

Hawthorne, CA

May 2013 - November 2013

eSolar Inc.

MEMBER OF 6 PERSON TEAM

- 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 presented the data in useful and interactive visualizations.

Burbank, CA

Fall 2013 - Summer 2014

Skyline Eco-Adventures

MEMBER OF 5 PERSON TEAM

- 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.

Claremont, CA

Fall 2014 - Winter 2014

Leadership Experience

McGaw YMCA

PROGRAM DIRECTOR

- 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 summer long training and development programs.
- Made actionable changes based off of bi-weekly customer surveys and analytics that led to high customer satisfaction.
- Managed the Main Camp Program budget and came in under budget for the program duration.
- Achieved highest return rate for campers the following summer in history of the camp, indicating all time high satisfaction.
- 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.

Fremont, MI

February 2014 - October 2014

Vail Resorts

SKI INSTRUCTOR

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

Vail, CO

Winter 2014, Winter 2015

Skills

Programming Python(w/ Pandas, NumPy, scikit-learn, Jupyter/IPython), C++, Matlab, Git, SQL, JavaScript, HTML, CSS, PHP, LabView.

Certifications PSIA Alpine Level 2, PSIA Childrens Specialist 1, NOLS Graduate, PADI Open Water.