# Aman Ali Khan

amankgs94@gmail.com ▪ (415) 481-8676
http://amanalikhan.com

## EDUCATION:

**University of California, Berkeley** ***B.S. Mechanical Engineering, Fall 2017***

## TECHNICAL SKILLS:

- Coursework and professional emphasis on product development, manufacturing, mechatronics and energy.
- Experienced in Siemens NX, Solidworks, AutoCAD, Python, Matlab, Labview, COMSOL, ANSYS Maxwell.
- Efficient at managing technical projects with tight deadline and budget constraints to deliver results.

## EXPERIENCE:

**Zipline – *Mechanical Engineer*** *February 2018–May 2018*

- Deployment of mass market drone delivery platform for blood and medical supplies across Africa.
- Design end-of-line tests for electric launcher ground system to improve operator safety and in-field reliability.
- Integrate design changes through prototyping, sourcing and testing of next generation launcher and vehicle.

**Apple – *Product Design Intern*** *January 2017–August 2017*

- Developed the next generation of iPhone, Watch and iOS accessories on the Interconnected Devices team.
- Collaborated with interdisciplinary teams to simulate and develop proof of concepts and test prototypes.
- Analyzed and presented results effectively to determine the future of a wide array of products and features.

**PCH Lime Lab – *Product Design Intern*** *May 2016–August 2016*

- Developed CAD database using master modeling to parametrically define and analyze early stage concepts.
- Prototyped original designs with manufacturing intent through multiple iterations of 3D printing and testing.
- Performed tolerance stack and root-cause analysis on manufactured parts to reduce CM produced failures.

**Berkeley Steel Bridge Team – *Senior Lead*** *August 2013-December 2016*

- Lead Engineer in machine shop, training a team of 10 students how to Mill, Lathe and use the CNC every year.
- Utilized efficient machining techniques to produce over 200 steel connections ranging from 1/16”–3/4” radius.
- Mentor students in Solidworks to analyze properties of the bridge and produce drawings to facilitate machining.

**Packd.org – *Product Engineer and Strategy Lead*** *June 2015-December 2016*

- Reduce campus over-crowding by providing real time occupation estimates of locations.
- Developed hardware enclosure in Solidworks that meets specific design constraints.
- Incorporated business strategy and manufacturing elements to develop the future of Packd.

**DSM Biomedical – *Mechanical Engineering and Manufacturing Intern*** *June 2015-August 2015*

- Designed solutions to improve raw material transportation systems, process workflow and safety standards.
- Coordinated with suppliers and internal operators to implement lasting changes in manufacturing process.

**Vehicle-to-Grid Simulation Laboratory – *Researcher*** *December 2014-May 2015*

- Verified accuracy of simulation by developing Arduino based GPS hardware and Python parser script.
- Produced documentation for hardware testing and feasibility report to expand usage to car and bus fleets.

**Tennis Dynamics Laboratory – *Research Assistant*** *January 2014-September 2014*

- Implemented shock and vibration testing procedure involving data acquisition using National Instruments technology to determine the “Peak Frequency” of 15 industry tennis rackets.

## ACADEMIC PROJECTS:

**Cabli – *Senior Design Project*** *Fall 2017*

- End-to-end design of parallel cable robot mechanical, electrical and software with emphasis on end effector.
- Prototyped and implemented electromagnet mounted on servo motor for pick-and-place applications.

**Microfluidic Heat Exchanger – *Senior Laboratory Project*** *Fall 2017*

- Design experiment and testing method to determine effectiveness of low Reynolds number (<1) heat transfer capabilities through a PDMS mold, with applications in consumer electronic device cooling.