

# 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.
- Efficient at managing technical projects with tight deadlines and budget constraints to deliver results.
- Experienced in Siemens NX, Solidworks, AutoCAD, Python, Matlab, Labview, COMSOL, ANSYS Maxwell.
- Awarded SCET Certificate in Entrepreneurship and Technology from UC Berkeley Engineering.

---

## EXPERIENCE

### **Zipline – Drone Engineer (contract)**

*February 2018–May 2018*

- Deployment of startup drone delivery platform for blood and medical supplies across Africa.
- Improved critical product consistency after identifying hazardous quality and low yield (<1/week) of carbon fiber “carriage” by developing build schedule (>3/week), SOP, end-of-line test, and vendor qualification.
- Increased operator safety and in-field reliability by designing end-of-line tests for electric launcher system.

### **Apple – Product Design**

*January 2017–August 2017*

- Developed wireless charging for iPhone, Apple Watch and iOS accessories on the Interconnected Devices team.
- Analyzed and presented results effectively to determine the future of a wide array of products and features.
- Coordinated remotely with suppliers to push dimensional tolerances, perform FA and improve processes.
- Collaborated with interdisciplinary teams to simulate and develop proof of concepts and test prototypes.

### **Packd.org – Product Engineer and Strategy Lead**

*June 2015–December 2016*

- Reduced campus overcrowding by providing real time occupation estimates of 10 locations via hardware.
- Identified and executed on product use cases, including partnership with Shanghai Tower, development of retail analytics and CMS platform, and numerous deployments across the Berkeley library system.
- Incorporated business strategy and production projections to explore feasibility of manufacturing at scale.

### **Berkeley Steel Bridge Team – Senior Mechanical 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.
- Managed part drawing release process, manufacturing build schedule and tool list to minimize schedule risk.
- Taught students Solidworks to analyze properties of the bridge and produce drawings to facilitate machining.
- Utilized efficient machining techniques to produce over 200 steel connections ranging from 1/16”–3/4” radius.

### **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 designs with manufacturing intent through multiple iterations of prototyping and testing.
- Performed tolerance stack and root-cause analysis on manufactured parts to reduce CM produced failures.

---

## ACADEMIC PROJECTS

### **“Drink Well” Samsung IoT Smart Water Bottle – Product Development**

*Spring 2016*

- Led market research on over 200+ individuals to address problems experienced by physically active users.
- Designed and prototyped ergonomically optimized water bottle design incorporating user feedback.
- Managed team priorities to develop MVP feature set including water level sensor and mobile app wireframe.

### **Vehicle-to-Grid Simulation Laboratory – Researcher**

*Spring 2015*

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