

Aman Ali Khan

aman@berkeley.edu (415) 481-8676
http://amanalikhan.com

EDUCATION:

University of California, Berkeley
Expected Graduation Date: May 2017

B.S. Mechanical Engineering

Relevant Coursework:

Statics & Dynamics	Material Properties	Fluid Mechanics	Control Systems
Product Development	Manufacturing	Thermodynamics	Energy and Society

TECHNICAL SKILLS:

- **Proficient** in Solidworks, AutoCAD, Python, Matlab, Labview, and LaTeX mark-up language
 - **Experienced** with LEAN manufacturing practices and process improvement methods
-

EXPERIENCE:

PCH Lime Lab – Mechanical Design Intern

May 2016–August 2016

- Designed custom components for client facing products spanning the consumer electronics industry.
- 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.

Packd.org – Product Engineer and Strategy Lead

June 2015–present

- Reduce campus over-crowding through start-up that provides real time occupation estimates of locations.
- Develop hardware enclosure in Solidworks that meets specific design constraints.
- Incorporate business strategy and manufacturing elements to develop the future of Packd.

Berkeley Steel Bridge Team - Senior Machine Shop and Solidworks Lead

August 2013–present

- Mentor students in Solidworks to analyze properties of the bridge and facilitate machining.
- As Lead Engineer in machine shop, train a team of 10 students how to Mill, Lathe and use the CNC machine.
- Utilize innovative machining techniques to efficiently produce steel connections ranging from 1/16"–3/4" radius.

DSM Biomedical – Mechanical Engineering and Manufacturing Intern

June 2015–August 2015

- Designed solutions to improve raw material transportation systems, process workflow and safety standards by identifying problems in manufacturing line.
- Coordinated with suppliers and internal operators to implement lasting changes in manufacturing process.
- Communicated original ideas and projects effectively to managers to institute proposed changes.

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 and documented testing procedure involving data acquisition using National Instruments technology to determine the "Peak Frequency" of over 15 industry tennis rackets.
-

ACADEMIC PROJECTS:

"Drink Well" Samsung IoT Smart Water Bottle (Product Development)

Spring 2016

- Conducted market research to address fundamental problems facing physically active users.
- Designed and prototyped ergonomically optimized water bottle design incorporating user feedback.
- Managed group deadlines to develop feature set including Arduino connected sensors and hydrophobic coating.

Lever Arm Robot (Microelectronic Circuits)

Spring 2015

- Prototyped and assembled a robot that responds to IR signals, using Op Amp processing and circuit elements.
- Programmed signal processing script in C to perform functions dependent on input IR signal length.

Aman Ali Khan

aman@berkeley.edu (415) 481-8676

<http://amanalikhan.com>
