Aman Ali Khan

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EDUCATION:

University of California, Berkeley ***B.S. Mechanical Engineering***
Expected Graduation Date: May 2017
Relevant Coursework:

Statics & Dynamics	Material Properties	Thermodynamics	Circuits
Fluid Mechanics	Manufacturing	Heat Transfer	Control Systems
Computational Biomechanics	Product Development	Energy and Society	Mechatronics

TECHNICAL SKILLS:

- Proficient in Solidworks, AutoCAD, Python, Matlab, Labview, and LaTeX mark-up language.
- Experienced with DFM, DFA, injection molding and LEAN manufacturing process improvement methods.

EXPERIENCE:

PCH Lime Lab – *Product 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 produce drawings to facilitate machining.
- As Lead Engineer in machine shop, train a team of 10 students how to Mill, Lathe and use the CNC.
- 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 shock and vibration testing procedure involving data acquisition using National Instruments technology to determine the “Peak Frequency” of 15 industry tennis rackets.

ACADEMIC PROJECTS:

“Drink Well” Samsung IoT Smart Water Bottle – *Product Development* *Spring 2016*

- Conducted market research to address fundamental problems experienced by 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.