Jason Cheung

(510) 461-9880 | 2540 Regent St. #6, Berkeley, CA 94720 | cheungjason@berkeley.edu | www.jasoncheung.me

Education & Honors

University of California, Berkeley — Berkeley, California
Bachelor of Science, Mechanical Engineering GPA: **3.6** — August 2014 - May 2018
Honors: 1 of 5 Charles & Daisee Seffens Scholarship recipients, for distinguished students pursuing a Mechanical Engineering degree at UC Berkeley
Coursework: Manufacturing and Tolerancing, Solidworks, Rapid Prototyping, MATLAB, Multivariable Calculus, Linear Algebra, Differential Equations

Engineering Experience

National Instruments and Autodesk Joint Lab at UC Berkeley — Berkeley, California
Mechanical Engineering Intern, Machinist — May 2015 - Present
- Our end goal is to create and validate a workflow to simulate control code on an Autodesk Inventor model with LabView.
- Lead the design, simulation, and building of a 3 mass slider crank & modeling of a go-kart's drivetrain and steering
- Used Inventor's dynamic simulation to determine how strong of a motor and coupling we would need for the slider crank.
- My work was featured at NIWeek 2015's Academic Keynote, Desktop Engineering, Design World, KXAN News (NBC)

Inertial Storage And Recovery (INSTAR) Lab — Berkeley, California
Undergraduate Research Assistant, Machinist — February 2015 - Present
- Expo'd at the annual National Instruments "NIWeek 2015" in Austin, Texas where I talked to over 5,000 engineers and the NI Vice President of Academic Product Marketing
- Analyzed the current condition of how the energy storing flywheel on the electric go-kart was mounted, and provided solutions to the drawbacks, taking into account vibrations and the 200kJ at 25,000RPM
- Designed, manufactured, and built a shipping box that isolates the kart from road vibrations using foam.

UC Berkeley Formula SAE — Berkeley, California
Suspension, Driver, Machinist — September 2014 - Present
- Outlined in LaTeX the usability issues I found with our 2015 suspension tuning methods and designed solutions and methodologies for those issues, that will reduce suspension adjustment error by 80%
- Currently designing next year's steering system, rockers, carbon fiber push and tie rods.
- Designed and performed stress analysis on an infrared temperature sensor mount.
- Designed and manufactured a push/pull bar for the car that we successfully used at competition
- Performed Die Penetrant Inspection, checking for microfractures in potentially fatigued parts
- Wrote knowledge transfer documents for all the work I have done

Bike Energy Generator — Berkeley, California
Lead Mechanical Engineer — August 2015 - Present
- My goal is to use the pedaling energy of a biker to charge a Zendure A2 battery pack which can charge through to any device through USB.
- Currently prototyping the first version and tweaking the packaging to make it universal among bikes

L-3 Communications: Power Paragon — Anaheim, California
Mechanical Engineering Extern (NDA signed) — January 2015
- Shadowed and supported 3 mechanical engineers by performing tolerance analysis, checking drawings, summarizing data sheets, and creating engineering change reports while familiarizing myself with the industry SOP
- Discovered a usability issue with an electromechanical assembly that would have prevented proper functionality.

Auto Sports Haus — Alameda, California
Assistant Mechanic — August 2012 - August 2014
- Upgraded and maintained air intakes, brake systems, and suspension.
- Familiarized myself with many components, tools, and practices which gave me a headstart in my work with Formula SAE

Entrepreneurial Work

Greek Social — Berkeley, California
Director of Design, Front End Developer, Co-Founder — October 2014 - May 2015
- 1 of 5 startups accepted (50+ applicants) into the 2015 Spring batch of a UC Berkeley startup incubator: Free University
- Managed what the site could be used for, speaking to potential users, leading the front end development of those features.

Skills

Skills: Solidworks (70hr+)[modeling], Inventor (70hr+)[modeling, dynamic simulation, rendering], AutoCAD (50hr+), Mill (50hr+),CNC(5hr+) Lathe (15hr+), HTML5/CSS (100hr+)