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: **3.7**
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: Solidworks, Rapid Prototyping, Physics: Mechanics, MATLAB, AutoCAD, 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 be able to have a complete workflow for information transfer from Autodesk Inventor to 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.

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 was featured on NBC Austin News and WTMH Media, and 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 and built a shipping box that uses isolation foam to reduce road vibrations during shipping to NIWeek 2015

UC Berkeley Formula SAE
Berkeley, California
Suspension, Driver, Machinist
September 2014 - Present

- Wrote a report that outlines the ergonomics issues I found with our 2015 suspension tuning and designed solutions and methodologies for those issues that will reduce suspension adjustment error by 80%
- Currently researching and 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

Power Generating Glider Chair
Berkeley, California
Lead Mechanical Engineer, Machinist
May 2015 - Present

- Our end goal is to use the rocking motion of a chair to power electronic devices
- Currently researching a prototyping various aspects of the gliding system and ergonomics

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+)