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

Castro Valley High School
Castro Valley, California
High School Diploma, GPA: 4.36, ACT: 34, top 3% of class
August 2010- June 2014

Engineering Experience

National Instruments and AutoDesk Joint Lab at UC Berkeley
Berkeley, California
Mechanical Engineering Intern
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 system.
- Translated those systems into Modelica, which will export to LabView, by deciding what the important features and joints are, and fine tuning the model by experimentally measuring and adding residual real-world properties.

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

Extracurricular Activities

INertial STorage And Recovery (INSTAR) Lab
Berkeley, California
Undergraduate Research Assistant
February 2015 - Present
- Analyzed the current condition of how the energy storing flywheel on the electric go-kart was mounted
- Provided solutions to the drawbacks, taking into account road vibrations, and the 200kJ at 25,000RPM of rotational kinetic energy stored in the flywheel. Helped bring the kart back into working order for and tabled at the annual "Cal Day" fair.
- Prepared the kart, and will be displaying at the annual National Instruments "NIWeek 2015" in Austin, Texas.
- Designed and built a containment box that isolates the electric kart from road vibrations during shipping

UC Berkeley Formula SAE
Berkeley, California
Suspension Team Member and Driver
September 2014 - Present
- Wrote a report that outlines the issues I found with our 2015 suspension and designed solutions for the issues I found.
- Designing next year's steering system, rockers, and carbon fiber push rods.
- Designed and performed stress analysis on an infrared temperature sensor mount.
- Designed and manufactured a push/pull bar for the car that we used at competition

Other 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 by speaking to potential users, leading the front end development of those features.

Skills

Skills: Solidworks (70hr+)[modeling], Inventor (60hr+)[modeling, dynamic simulation, rendering], AutoCAD (50hr+), Mill (30hr+), Lathe (10hr+), HTML5/CSS (100hr+)