Jason Cheung

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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

Castro Valley High School — Castro Valley, California
High School Diploma, GPA: 4.36, ACT: 34 — August 2010- June 2014

Work Experience

Lab Assistant II — Berkeley, California
National Instruments and AutoDesk funded Lab at UC Berkeley — May 2015 - Present
Our end goal is to be able to transfer information directly from a modeling environment to a simulation environment. I am in charge of designing, modeling, building, testing, and verifying an electric go-kart (pre-built) and a slider crank using Autodesk Inventor and translating the systems to Modelica which will export to LabView.

Director of Design, Front End Developer, Co-Founder — Berkeley, California
Greek Social — October 2014 - May 2015
We help the fraternity and sorority communities host safer and more organized events. Talked face to face with the potential users and managed what the site could be used for, eventually leading the front end development of those features.

Mechanical Engineering Extern (NDA signed) — Anaheim, California
L-3 Communications: Power Paragon — January 2015
Shadowed and supported 3 Mechanical Engineers by using Inventor, checking drawings, and creating engineering change reports. Familiarized myself with the industry SOP. Discovered a usability issue with an electromechanical assembly that would have prevented proper functionality.

Assistant Mechanic — Alameda, California
Auto Sports Haus — August 2012 - August 2014
Upgraded and modified air intakes, brake systems, and suspension. Familiarization with many components and tools that are related to automobiles

Extracurricular Activities

Undergraduate Research Assistant — Berkeley, California
Inertial Storage and Recovery (INSTAR) Lab — February 2015 - May 2015
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 road vibrations, and the 200kJ at 25,000RPM of rotational kinetic energy stored in the flywheel. Prepared the kart for and tabled at the annual "Cal Day" fair.

Suspension Team Member and Driver — Berkeley, California
UC Berkeley Formula SAE — September 2014 - Present
Wrote a report that outlines the issues I found with our 2015 suspension system and designed solutions to all the issues I found. Researched and talked with other teams for ideas for next year's suspension. Devised a method using the lathe, instead of a grinding wheel, to create precise fish mouth tube end cuts, machined a tool for it, and wrote a report that outlines how to do it. Designed and performed stress analysis on an infrared temperature sensor mount. Designed and manufactured a push/pull bar for the car. Drove the car in the autocross event at the annual competition.

Projects

Walker and Side Bedrail | Lead Designer, Machinist — Castro Valley, California
Goal: To improve my grandmother's mobility and life — May 2013 - June 2013
I researched all kinds of walkers and side bedrails, took what I learned, designed, and built, a PVC walker for my grandma.

Power Generating Glider Chair | Lead Engineer, Machinist — Berkeley, California
Goal: To use the rocking motion of a chair to power multiple electronic devices — May 2015 - Present
Currently in the research and prototype phase of designing a glider chair that will seamlessly integrate the soothing glider chair experience with the ability to charge electronic devices.

Skills & Interests

Skills: Solidworks (70hr+), Inventor (50hr+), AutoCAD (50hr+), Mill (30hr+), Lathe (10hr+), HTML5/CSS (70hr+), JQuery (5hr+)