

Jeff Chung

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Education

Cornell University, Sibley School of Mechanical and Aerospace Engineering, Ithaca, NY

Master of Engineering in Mechanical Engineering

May 2016

GPA: 3.813 (Dean's List All Year)

Certification: Six Sigma Black Belt & Fundamentals of Engineering Exam (EIT)

Bachelor of Science in Mechanical Engineering

May 2015

GPA: 3.41 (Major) 3.57 (Junior & Senior) (Dean's List for Last Two Semesters)

Relevant Courses

Innovative Product Design via Digital Manufacturing · Finite Element Analysis · Mechatronics · Mechanical Synthesis · Systems Engineering for Design and Operation of Reliable Systems · Model Based Systems Engineering · Ergonomics and Anthropometrics · Making a Difference by Design · Mechanical Properties and Performance lab · Leadership Theory and Practice · Project Management · Automotive Engineering · Computing-MATLAB and Robotics

Experience

Innovative Product Design Project, Cornell University, Ithaca, NY

Fall 2015

Project Leader/Designated CAD Designer

- Promoted better family experience by redesigning umbrella handles with various features via SolidWorks
- Prototyped 10 umbrellas for design reviews with professors, industrial representatives, and users to gain feedback
- Brainstormed to define target user's needs and insights by engagements, observations, and interviews
- Documented design thinking process, systems engineering tools, and business analysis into a formal report

Bayer HealthCare, Diabetes Division, Tarrytown, NY

Summer 2015

Mechanical Engineering Intern

- Designed prototypes of Bluetooth companion for Bayer's self-monitoring glucose meter via SolidWorks
- Devised three protocols, designed and printed fixtures for the upcoming lancing device via Stereolithography system
- Conducted design reviews to present and discuss CAD with the project manager and senior mechanical engineer
- Discovered thickness discrepancy of a part by Micro-Vu software and communicated with international manufacturers

Cornell Formula SAE Racing Project Team, Cornell University, Ithaca, NY

Spring 2014 - Spring 2015

Ergonomics Sub-Group Member

- Designed, analyzed, and machined clutch lever and pneumatic shifter system using Autodesk Inventor and ANSYS
- Collaborated to layup carbon fiber on aluminum honeycomb structure of monocoque
- Authored technical and cost reports

Soft Robotics Research Lab, Cornell University, Ithaca, NY

Summer 2013 - Fall 2014

Research Assistant under Professor Robert Shepherd

- Designed, machined, and assembled rotational molding machine via SolidWorks and ANSYS
- Fabricated and tested liquid metal infused silicone polymer soft actuators with reversible stiffness
- Redesigned soft silicone actuators and mold for improved mechanical performance and easier production
- Utilized 3D Objet printer and laser cutter to build educational products

Defense Psychological Operations Group, Ministry of National Defense, South Korea

Jun 2010 - Mar 2012

Army Squad Leader

- Resolved problems between squad members and officers, mediated with other squad leaders in company
- Engaged in four simulation exercises with US army (Two Key Resolve/Foal Eagle, Two Ulchi-Freedom Guardian)
- Translated and interpreted between ROK and US soldiers. Recorded speeches and announcements in English

Specialized Skills

Computer: SolidWorks, Autodesk Inventor, ANSYS, MATLAB, LabVIEW, AutoCAD, SysML, JMP, Test Navigator

Technical: Milling & Lathing (150+), Soldering, Welding, 3D Print (Objet, SLA Viper), Laser Cutter, Benchtop Tester

Microsoft Office: Microsoft Certified Application Specialist (MCAS) Master (Word, Excel, PPT, Outlook)

Language: Korean (Fluent), English (Fluent)