

# **Chung-Hau Wang**

2620 Severance St. Apt.4 · Los Angeles, CA 90007 · (213)359-9740 · chunghau@usc.edu

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## **EDUCATION**

<b>University of Southern California (USC)</b> , Los Angeles, CA	Dec 2013
Master of Science, Mechanical Engineering (Specified in Control and Design)	
<b>Jian Guo Educational Institution for Chinese Medicine</b> , Taichung, Taiwan	2008-2010
Student, Chinese Medicine	
<b>National Chung Cheng University (CCU)</b> , Chiayi, Taiwan	2007
Bachelor of Science, Mechanical Engineering	
<b>Moscow Aerospace School's 2005 Program</b> , Russia	Sep 2005

## **TECHNICAL SKILLS**

SolidWorks, AutoCAD, MatLab, Visual C++, Java, Visual Basic, Python, Verilog, and MS Office

## **WORK EXPERIENCE**

### **Grader for Engineering Vibrations I**

USC, Los Angeles, CA Jan 2013-May 2013

### **Directing Officer (Military Service)**

**Level A Ordnance Repair Depot, Combined Logistics Command, DOD**, Taiwan Jul 2007-Jun 2008

- Managed the repair technicians and maintained the armament (rifle, artillery, telescopes, etc.)

## **PROJECT EXPERIENCE**

### **Regenerative Speed Reducer (RSR):**

This project is to design a device to collect and transform vehicle's kinetic energy to electrical power

- Designed the prototypes, the configuration, and the materials for each component
- Analyzed the model by finite element analysis (FEA) with COSMOSWorks package in SolidWorks

### **Computer-Aided Design of Mechanical Systems**

This project is to analyze different models by FEA with COSMOSWorks package in SolidWorks

- Analyzed the stress/strain and their distributions, the vibration natural frequencies and the corresponding vibration modes, the buckling boundary conditions, and thermal stress/strain for different models

### **Da Vinci Flyer**

This project is to reconstruct Da Vinci's flyer

- Designed the model and determined the flyer's scales, flying modes, and the feasibility with SolidWorks

### **Modeling and Analyzing Vibrating Systems**

This project is to analyze the vibrations of lump-mass systems and continuous systems

- Modeled and analyzed a suspension system model of automobiles and a model of airplane wings with mounted engines.

## **HONORS & AWARDS**

**First Place** (Work Name: Running Chair)  
2006 Taiwan Innovative Mechanism Design Competition

Oct 2006

#### **EXTRACURRICULAR ACTIVITIES**

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Club for Initiative Design & Engineering                           CCU, 2004-2007  
Club of Taijiquan (a soft Chinese martial arts)                   CCU, 2003-2007