

Chung-Hau Wang

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EDUCATION

University of Southern California (USC), Los Angeles, CA	Dec 2013
Master of Science, Mechanical Engineering (Specified in Control and Design)	
National Chung Cheng University (CCU), Chiayi, Taiwan	2007
Bachelor of Science, Mechanical Engineering	
Moscow Aerospace School's 2005 Program, 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 selected 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 design a centrifugal governor by **FEA** with COSMOSWorks package in **SolidWorks**

- Analyzed the stress/displacement and their distributions, the vibration natural frequencies and the corresponding vibration modes
- Determined the scales for each part of the governor

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) Oct 2006
2006 Taiwan Innovative Mechanism Design Competition

EXTRACURRICULAR ACTIVITIES

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