

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)	
Jian Guo Educational Institution for Chinese Medicine , Taichung, Taiwan	2008-2010
Student, Chinese Medicine	
National Chung Cheng University (CCU) , Chiayi, Taiwan	2007
Bachelor of Science, Mechanical Engineering	
Moscow Aerospace School's 2005 Program , Russia	Sep 2005

TECHNICAL SKILLS

MatLab, SolidWorks, AutoCAD, 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

- Corrected the students' homework

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

SpaceBot

This project is to design a Geosynchronous (GEO) satellite life-extension vehicle

- Determined the required propellant masses, scales of SpaceBot and its subsystems
- Evaluated the feasibility and the cost for the whole project

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

ADDITIONAL INFORMATION

Languages: Native in Mandarin/Taiwanese, Fluent in English

Interests & Hobbies: Taijiquan (10-year formal training), Chinese martial arts, sports, Chinese calligraphy, reading, and traveling (visited England, France, Russia, Singapore, Vietnam, Japan, the US)