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

TECHNICAL SKILLS

Programming Languages: Visual Basic, Visual C++, Verilog, Java, Python

Applications: SolidWorks, MatLab, AutoCAD, and MS Office (Word, Excel)

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

· Maintained the armament (rifle, artillery, telescopes, etc.)

· Managed the repair technicians

PROJECT EXPERIENCE

Regenerative Speed Reducer (RSR):

This project is to develop a power regenerative device which reduces vehicle's speed without braking and collects/transforms energy simultaneously.

· Designed the prototypes for RSR with SolidWorks and chose the materials for each component

· Analyzed the model for structural stability and workability

Finite Element Analysis

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

· Analyzed models in stress/strain, vibration, buckling, and thermal stress/strain problems

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

・Reconstructed a layout of Da Vinci's flyer using 3D CAD, such as SolidWorks

・Developed the needed formula and examined the feasibility

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

・Modeled and analyzed 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

ADDITIONAL INFORMATION

Attended Moscow Aerospace School's 2005 Program in Russia   Sep 2005

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)