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, CATIA, MatLab, 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

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 SolidWorks and CATIA

Computer-Aided Design of Mechanical Systems

This project is to analyze different models by FEA with SolidWorks and CATIA

· 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 with MatLab

HONORS & AWARDS

First Place (Work Name: Running Chair)   Oct 2006

2006 Taiwan Innovative Mechanism Design Competition