

Chung-Hau Wang

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EDUCATION

University of Southern California (USC) , Los Angeles, CA	Dec 2013
Master of Science, Mechanical Engineering (Specialized in Control and Design)	
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

Quality Control Engineer

Meritek Electronics Corp., Santa Fe Springs, CA Feb 2015-Present

- Improved the manufacturing process by 50% and maintained the manufacturing machinery

Grader for Engineering Vibrations

USC, Los Angeles, CA Jan 2013-May 2013

- Corrected the students' homework and guided the students in academic learning

HONORS & AWARDS

Taiwan Patent (Patent No: 10441189140) Pending

This patent is to protect a manual wheelchair of all-terrains

First Place (Work Name: Running Chair) Oct 2006

2006 Taiwan Innovative Mechanism Design Competition (National Science Council of Taiwan sponsored)

This project was to modify wheelchairs' mechanism and function to make them more ergonomic

- Led the team to design the prototype and the mechanism, and determined the configuration

PROJECT EXPERIENCE

Manual Wheelchair for All-Terrains

This project is to design an ergonomic manual wheelchair for all-terrains

- Designed the prototype with SolidWorks and simulated the wheelchair with 3D printers

Regenerative Speed Reducer (RSR)

This project is to design a device to recycle the energy from vehicles

- Led the team to design RSR and analyzed RSR by FEA with SolidWorks and CATIA

SpaceBot

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

- Determined SpaceBot's parameters and evaluated the feasibility of the project

Vibrating Systems

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

- Modeled, analyzed, and simulated vibration systems with MatLab