

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)

TECHNICAL SKILLS

SolidWorks, CATIA, MatLab, AutoCAD, C++, Java, Android, Visual Basic, Linux, Python, Verilog, MS Office

WORK EXPERIENCE

Associate Engineer

Industrial Technology Research Institute (ITRI), Hsinchu County, Taiwan (R.O.C)

May 2016-Present

- Established and managed Taiwan's 1st Robot Laboratory; Assisted in legislating on Taiwan's robotic standards

Junior Manufacturing Engineer

Meritek Electronics Corp., Baldwin Park, CA

Feb 2015-May 2016

- Ensured smooth manufacturing/assembling process; Promoted the management system by 60% of efficiency

HONORS & AWARDS

Taiwan Patent (Patent No: M506597)

This patent is about a 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

Toothpaste Dispenser Design Challenge from Apple Inc.

This project is to design an automatic toothpaste dispenser dispensing with constant volume and without drips

- Designed the prototype and configuration of the toothpaste dispenser

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

Computer-Aided Design of Mechanical Systems

This project is to apply FEA to analyzing different models with SolidWorks and CATIA

- Analyzed stress/strain problems, vibration systems, and thermal stress/strain problems