

# **Chung-Hau Wang**

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## **EDUCATION**

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**University of Southern California (USC), Los Angeles, CA**

Dec 2013

Master of Science, Mechanical Engineering (Specialized in Control and Design)

## **TECHNICAL SKILLS**

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

## **WORK EXPERIENCE**

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### **Associate Engineer**

**Industrial Technology Research Institute (ITRI), Hsinchu County, Taiwan (R.O.C)** May 2016-Present

- Established and managed Taiwan's 1<sup>st</sup> 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**

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### **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**

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### **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