

# Heiru Wu

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## Educational Background

- ChangGung University, Taoyuan City, Taiwan (R.O.C)
- Bachelor of Electronic Engineering, Expected Feb 2016

## Relevant Course-works

- Computer Programming (JAVA and C++), Object-Oriented Programming, Data Structure
- Machine Learning, Numerical Method, Computer Networks, Networks security

## Related Programming Language

- Java, git, Matlab, C++, MySQL, Terminal, Python, Assembly language, Verilog, HTML
- Android development with both Android Studio and Eclipse ADT

## Projects

### Independent study project

- Developing an application running on Android system that is able to interact with the PC with several functions:
  - PowerPoint: Control your PowerPoint under presentation mode.
  - Youtube: Adjust volume, jump to next or previous song.
  - Mouse control: Use a phone's screen as computer's touchpad.
- Designed required Java server to react to the command received from the phone, and parse to the PC.
- Now is published to Google Play Store and has around 500 downloads.

### Course project of Machine Learning

- Researched and designed a genetic algorithm in order to find the optimal sorting network.
- Optimized for the number of populations, mutation rate and convergence.

## Experiences

### Undergraduate Research Assistant, Parallel Processing and SoC Lab (CGU)

Nov 2014 - July 2015

- Designed and developed applications running on Android System to communicate with microprocessor under BLE protocol
- Researched, designed, test and programmed algorithms for data packet transfer

## **Software Development Intern, Industrial Technology Research Institute**

**Summer 2013, 2014 and 2015**

- In charge of android platform developing in Tomato project, and released ver 1.0.
  - an IFTTT-like web-based service that connect all the popular social network and system-level service, create chains between services which are trigger-able to do conditional moves on mobile.
- Developed software for OpenMAX implementation on Android system
- Researched, designed and test real-time video streaming codec on Android
- Bluetooth communication software development between Android wearable and devices

## **Temporary Software Assistant, Electric Machinery Lab (CGU)**

**Sept 2014 - Oct 2014**

- Development of Four-wheel LEV with Integrated Power Chain and Driving Monitoring System.
- Develop monitoring system on tablet with dashboard, Google map API and implement dash-cam function with camera.

## **Awards**

- First Place of Ministry of Education 2014 National Microprocessor Application System Design and Innovation Contest Award
  - Development of Four-wheel LEV with Integrated Power Chain and Driving Monitoring System
  - Team position of designing and developing UI for dashboard and back-end monitoring system
- Educational Award sponsored by JunyiAcademy of 2014 NTU Hackathon
  - Redesigned and integrated web profiles for professors
  - Team position of developing mobile application to interact with web service
- 2014 Award for Outstanding Performance in enterprise internship outcome by Chang Gung University
  - Wearable computing program development under BLE protocol.