TIEN-TSU WU

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EDUCATION

National Cheng Kung University   *2014 - 2019*
Bachelor of Computer Science and Information Engineering

EXPERIENCE

Advantech   *2019 - present*
Software Engineer of Switch
- Maintain several **ring protocols** : *add some options in the state machine to make the code be able to be used in some similar protocols.*
- Add open source code for **Onvif** into switch : *I generate the C code for onvif with tools called gSOUP and make the C code be compiled to produce a module in the switch.*
- Implement **Sticky mac** and **Blackhole** for L2 networking : *sticky mac make the switch can learn mac automatically and Blackhole can drop packages with specific mac.*
- Port ring protocols : *I move the code of ring protocols from kernel space to user space and from C to C++.*

National Cheng Kung University   *2018*
*Research Assistant (*Multimedia Human-Machine Communication lab)
- Develop web crawler with **python**
- Train machine learning model for text with **LLDA** *to determine the title of an article.*
- Speech preprocessing and text preprocessing, *the result data will be used to train model of speech and text.*
- Insert open source for display in the android app with Java *which can dynamically visualize the data.*

PROJECT

Simulation for Robotic Arm on Remote Control   *2018*
- Modeling with **blender.**
- Controlling model with python **in blender.**
- Communicating by arduino **:** *one attached to the computer, another to the sensor, and radio module used to connect wirelessly.*
- Detect fingers with Bend sensor.

Comuication Server
- Implementing **Restful server** with node.js.   *present*
- Implementing echo server with C and supporting multithread.   *2019*

SKILL

C, Javascript, python