

Chien- Cheng Wu (C.-C. Wu)

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<http://stanleyw-tw.github.io/>

Professional Experience and Achievement

Qualcomm Communication Inc, Taipei, Taiwan

2017/03– Present

Software Engineer

- Reviewed/Implemented Core BSP functions on the Phone/IoT platforms
 - Used C and Java for Android/WearOS/Linux Operating System
 - Sensor/Peripheral sub-system

Hope Bay Technologies Inc, Taipei, Taiwan

2016/03–2017/01

Software Engineer

- Implemented user-space file system functions on Linux platform via C
 - Used ARMv8 on Qualcomm Android Linux platform
- Implemented VoIP voice call recording product for more than 1000 concurrent calls via C and Python
 - Used x86 Ubuntu and CentOS platforms
- Integrated PBX/SIP and SQL service via Python

Acer Design Center, Smart Mobile Software Department, Taipei, Taiwan

2013/10–2016/03

Software Engineer

- Researched 3GPP protocol and issued two patents
- Implemented communication protocol on smart phone products
 - Troubleshoot LTE/UMTS/GPRS/GSM field-trial issues
 - Solved bugs reported by customers
 - Evaluated GCF and PTCRB standards verification
- Implemented instance message systems via Java language
- Implemented IM App with IP call function on Android handsets
 - Implemented and built C shared library on Qualcomm and Mediatek Android phone
- Integrated software development tools by git/SVN, JIRA and Jenkins

NCTU Broadband Mobile Network Lab, HsinChu, Taiwan

2012/08–2013/09

Research Assistant

- Implemented National Science Council Mobile Augmented Reality (AR) Project
 - Video streaming recognition between Android phones and AR servers

NCTU Network Benchmark Lab, HsinChu, Taiwan

2011/09–2013/09

Engineer

- Implemented real-time network traffic platform via C language

NCTU Research and Development Office, HsinChu, Taiwan

2010/09–2011/06

Intern

- Analyzed patent and prior-art research

Education

National Chiao-Tung University (NCTU), HsinChu, Taiwan

2011/09 – 2013/06

Masters of Computer Science and Engineering

- Thesis: Local Cache Management on Mobile Augmented Reality
- European Satellite Navigation Competition, Stars Prize Award

National Chiao-Tung University (NCTU), HsinChu, Taiwan

2010/09 – 2011/06

Minors of Communications and Engineering

- Network Standard Research

TCP/IP, IEEE 802.11 series, IEEE 802.15 series, GSM, GPRS, UMTS, LTE,
Sensor Network, Zigbee and Machine-Type Communication

National Chiao-Tung University (NCTU), HsinChu, Taiwan

2007/09 – 2011/06

Bachelors of Computer Science

Publications

Patent, “Method and Device of Group Based on Machine Type Communication in Communication System”, *US Patent No. 20160352445 A1, EU No. 3099088 A1*, **C.-C. Wu** 2015/05

Patent, “Machine Type Communication (MTC) Devices, Service Networks, and Methods for Configuring Periodic Update Timers”, *US Patent No. 20160234627 A1*, **C.-C. Wu** 2014/12

Conference Paper, “On Local Cache Management Strategies for Mobile Augmented Reality”, **C.-C. Wu**, L.-P. Tung, C.-Y. Lin, B.-S. Lin, and Y.-C. Tseng, *IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)* 2014/06

Conference Paper, “A Lane-Level Dynamic Traffic Control System for Driving Efficiency Optimization Based on Vehicular Networks”, L.-W. Chen, C.-C. Chang, P. Sharma, J.-H. Cheng, **C.-C. Wu**, and Y.-C. Tseng, *IEEE International Conference on Pervasive Computing and Communications (PerCom)* 2013/03

Patent, “Charging Device and Method For Adjusting Charging Status Based on Road Conditions”, *Taiwan Patent No. I452801*, L.-W. Chen, Y.-C. Tseng and **C.-C. Wu** 2011/12

Patent, “A Positioning Method for Long-Thin Fleet”, *US Patent No. 9000976 B2*, L.-W. Chen, **C.-C. Wu** and Y.-C. Tseng 2011/10