

Chien-An “Zero” Cho

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RESEARCH INTERESTS

I am most interested in bringing technologies into life. Based on the idea, my interest areas include **embedded systems, wireless sensor network, network protocol design, mobile/ubiquitous computing, cloud computing** and **user interface/experience**.

EXPERIENCE

KKBOX Inc.

Contractor

Taipei, Taiwan

January - August 2012

- Technical research for mobile and web platforms
- Developed Customized UI Control for Android
- Delivered HTML5-based Javascript Game

Mediatek Inc.

Summer Intern

Hsinchu, Taiwan

July - August 2011

- Android System Team, working with Nicholas Tang
- Developed a system crash investigation tool

hypo.cc

Developer

Taipei, Taiwan

Feb 2008 - Sep 2011

- Software Engineering, working with Yuan-Lung Lan
- Individually developed products web editor such as [Ticket](#), [Wide](#)
- Mac OS X / Linux System Administration
- Maintained PDF generation framework in Cocoa / iOS application development
- Built a scalable queueing system to handle large amount of PDF/preview generation

SNMG, Dept. of EECE, NCU

Group Leader

Chung-Li, Taoyuan, Taiwan

2007 - 2010

- System Network Management Group, Department of Electrical Engineering & Communication Engineering, National Central University
- Lead the group for the major system transition (FreeBSD 4 to ArchLinux)
- Communicate with supervisors (professors) and coordinate the progress of members
- Experiences of major system failure recovery (Hard disk failure due to power outage)

EDUCATION

Georgia Institute of Technology, USA

2012/08 - Now

PhD Degree / Computer Science Advisor: Calton Pu Field: Cloud Computing

National Tsing Hua University, Taiwan

2010/09 - 2012/06

Master Degree / Computer Science

Embedded Platform Lab, Advisor: Pai H. Chou

Overall GPA: 4.0/4.0

National Central University, Taiwan

2006/09 - 2010/06

Bachelor Degree / Communication Engineering

Overall GPA: 3.1/4.0 Major GPA(Computer Science): 3.7/4.0

PROFICIENCIES

- Language: Ruby, Objective-C, C/C++, Python, Java, PHP, ARM/8051 assembly
- WebDevs: HTML, CSS, JavaScript, Ruby on Rails, Sinatra, Google AppEngine

SELECTED PUBLICATIONS

- Chih-Lin Hu and Chien-An Cho, “User-provided multimedia content distribution architecture in mobile and ubiquitous communication network”, Journal of Network and Computer Applications, Vol. 34, pg. 121-136, January 2011 [DOI: 10.1016/j.jnca.2010.08.010] [[Paper](#)]
- Chih-Lin Hu, Chien-An Cho, Chang-Jung Lin and Chen-Wei Fan, “Design of mobile group communication system in ubiquitous communication network”, IEEE Transactions on Consumer Electronics, Vol. 56, pg. 88-96, February 2010 [DOI: 10.1109/TCE.2010.5439130] [[Paper](#)]
- Chih-Lin Hu and Chien-An Cho, “A Novel Mobile Content Delivery Scenario with Simple Double-Key Secure Access Control”, International Journal of Security and Its Applications, Vol. 3, No. 1, pp. 1-16, January 2009. [Recommended by UMC08] [[Paper](#)]
- Chih-Lin Hu, Chien-An Cho and Po-Jung Wang, “CONTENT SHARING AND DELIVERY IN AN INTEGRATED NETWORK ENVIRONMENT”, US Patent App. 12/458,617, Submitted Jul 17, 2009
- Chih-Lin Hu, Chien-An Cho, Chen-Wei Fan and Chang-Jung Lin, “SYSTEM AND METHOD FOR MOBILE GROUP POSITIONING”, US Patent App. 12/654,050, Submitted Dec 9, 2009

AWARDS

Embedded System Contest 2011 <i>Honorable Mention</i> Augmented Reality Home Automation System	Ministry of Education
Telecom Innovation & Application Contest 2010 <i>Honorable Mention</i> Home appliance monitoring and control system using WSN	Chunghwa Telecom
WWDC(Worldwide Developer Conference) 2009 <i>Student Scholarship</i>	Apple Inc.
MobileHero Android Software Contest 2009 <i>Second Prize + Google Prize</i> KerKerInput, an Android Chinese input method framework	Ministry of Economic Affairs
Telecom Innovation & Application Contest 2009 <i>Frist Prize</i> SLIMA, Location-based photo blogging system with timeline concept	Chunghwa Telecom
Intenet Communication Softwares and Creativity Application Contest 2008 <i>First Prize</i> Android Inter-Vehicular Communication System	Ministry of Education

SELECTED OPEN-SOURCE PROJECTS

KerKerInput Project Leader (has 2 contributors and many forks)	https://github.com/itszero/KerKerInput <i>Android, Input Method, Framework</i>
<ul style="list-style-type: none">• One of the first Chinese input methods implemented for the Android platform. The fact that it can be easily extended made it a perfect playground to experiment different new and creative mobile input methods	
HypoWWDCBroadcast Main Contributor	https://github.com/hypo/HypoWWDCBroadcast <i>Python, AppEngine, large-scale web</i>
<ul style="list-style-type: none">• Developed to host an Apple WWDC Chinese live text broadcast event• 150 requests per second is achieved without any service disruption during the broadcast	

Full portfolio: <https://github.com/itszero/>