

Ben Zhang

Resume

November 2011

Address: Room 117B, Zijing 1st Bldg
Tsinghua University, Beijing, China.
Phone: +86 151 2000 3948
Email: nebnahz@gmail.com
WWW: benzhang.name

Education

Tsinghua University, Beijing, China

Aug 2008 - Jul 2012

Bachelor of Engineering in Electronic Engineering

Chinese University of Hong Kong, Hong Kong, China

Sept 2010 - Jan 2011

Exchange Student in Electronic Engineering Department, GPA 3.95/4.0

Academic Experience

Mobile and Sensing Systems, Microsoft Research Asia, Beijing, China

Jun 2011 - present

Research Intern, advised by Dr. Xiaofan Fred Jiang

LiveSynergy

- Improved the system reliability and MCU transient immunity; manufactured 60+ boards for deployment.
- Design and development of Windows Phone 7.5 native application to enable bi-directional interaction

PhoneWeb

- Implemented a GUI frontend for PhoneWeb - SubwayRendezVous client

Digital Television Laboratory (DTV), Tsinghua U, Beijing, China

Jul 2009 - Jun 2011

Research Assistant, advised by Prof. Kewu Peng

- Proposed a simplified criterion Hamming Euclidean Distance Spectrator to evaluate the equivalence of labelings and obtain the classification of unique mappings; submitted a patent to suggest a constellation mapping and de-mapping scheme by applying this criterion on DVB-S2 coded modulation systems.

Publications & Patents

1. Xiaofan Jiang, Chieh-Jan Mike Liang, Feng Zhao, Kaifei Chen, Jeff Hsu, **Ben Zhang**, and Jie Liu, "Demo: Creating Interactive Virtual Zones in Physical Space with Magnetic-Induction", the 9th ACM Conference on Embedded Networked Sensor Systems (SenSys 2011), Nov. 2011
2. Kewu Peng, **Ben Zhang**, Junhao Lin, Hui Yang, and Changyong Pan, "A Constellation Mapping and De-mapping Scheme for DVB-S2 Coded Modulation Systems", Chinese Invention Patent, Patent Application Number: 201110216908.2

Leadership Activities

Youth Ambassador Program for Minorities, Beijing

Jun 2009-Jun 2010

Project President

- Expanded the project sites from 4 to 8, covering 6 provinces; managed to get 200,000 sponsorship from Diageo;
- Effectively improved the communications among Beijing, Shanghai and Hong Kong branches.

Selected Awards

ACM Sensys'11 Best Demo Award, Seattle, WA (*among 33 demos*)

Nov 2011

HNA Academic Excellence Scholarship, Tsinghua U (*top 10%*)

Nov 2011

Personals & Skills

- English: TOEFL(iBT) 109; GRE 610+800+4.0
- Computer skills: Assembly, C, C++, C#, NesC, Verilog, Matlab, Python, HTML, XAML, Pspice, Visual DSP++, Multisim, Quartus, EAGLE PCB design, L^AT_EX, Adobe DreamWeaver, Sony Vegas