

## Education

- 2006–2010 **Master in Computer Science**, *University of Houston*, Houston, 3.4.  
2002–2006 **Bachelor in Electronics Engineering**, *Tsinghua University*, Beijing, 3.5.

## Master thesis

- title *Multi Channel Multi Radio MAC For Wireless Mesh Network*  
supervisors Dr. Rong Zheng  
description A wireless mesh network in which each node is able to dynamically switch channels on two radio interfaces

## Experience

### Vocational

- 2013–present **Senior Software Engineer**, *Samsung Telecommunication America*, San Jose, TX.  
B2B Mobile Solution
- FIPS module integration on Android
    - Linux crypto module development
    - Android crypto framework extension
    - Samsung KNOX framework development
  - Cloud MDM server development
    - prototype MDM(Mobile Device Management) server architecture using XMPP
      - Openfire
      - Smack
- 2012–2013 **Senior Software Engineer**, *Samsung Telecommunication America*, Dallas, TX.  
Android FOTA Development
- New Android FOTA feature development
  - FOTA algorithm improvement
    - Patent pending
  - Mobile Framework Development
    - Samsung enhancement for Android
    - Samsung Tizen framework
  - Support Samsung FOTA solution commercialization on Android
    - Porting for different chipsets
    - Design and development of testing framework
- 2010-2012 **Software Developer**, *WorldLink, Inc*, Dallas, TX.  
Android FOTA Development
- Similar to above

- Work as consultant

### Miscellaneous

2006–2009 **Research Assistant**, *University of Houston*, Houston, TX.  
research assistant in wiser group

- Embedded Linux driver development
  - WIFI driver which operates on two wifi interfaces
- Wireless Testbed deployment
  - Python control framework
- Wireless sensor development
  - TinyOS 2.x
- Algorithm prototyping
  - optimization algorithm implementation in matlab
- Network simulation
  - NS2
  - QUALNET
- IT support
  - Linux server admin
  - Source control management
  - CMS solution using Drupal

### Languages

Python **Expert**  
C **Expert**  
Java **Professional**  
Lua **Intermediate**

### Computer skills

Linux Kernel Driver developer. General understanding of Linux kernel internals  
ARM chipset ARM instruction set, SafeZone, Mobile bootloaders, ARM compiling tools  
Network protocol Optimization for mobile networks  
Development tools emacs, eclipse, git, p4, gcc, cmake, tcpdump, kismet

### Current Interests

Erlang Advanced concurrency features  
ARM hadoop + hbase + ARM  
microserver