Sun, Jingdong

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EDUCATION

Missouri University of Science & Technology (Missouri S&T) *Aug. 2016-Present*
Ph.D. Candidate in Electrical and Computer Engineering GPA: 4.0/4.0

Missouri University of Science & Technology (Missouri S&T) *Aug. 2014-May. 2016*
M.S. in Electrical and Computer Engineering GPA: 4.0/4.0

Huazhong University of Science & Technology (HUST) *Sept. 2010-Jun. 2014*
B.S. in Electronics and Information Engineering (Honor Program) GPA: 3.7/4.0

HORNORS AND AWARDS

IEEE EMC Society Best Student EMC Hardware Design Award *Mar. 2015*
First Author. Granted by IEEE Electromagnetic Compatibility Society.

Exceptional Performance in the International EM Proficiency Test *Oct. 2014*
Top 4% among 265 exam takers from Japan, HK, Korea, Taiwan, and U.S.

Graduate Research Assistant Scholarship *Sept. 2014*
Full research scholarship granted by EMC Laboratory, Missouri S&T.

National Prize in Mathematical Modeling Contest CUMCM *Sept. 2012*
Top 5% among all the participates from China, Singapore, and U.S.

WORKING EXPERIENCE

ConvenientPower Systems (CPS), Leading in Wireless Charging *Apr. 2017-Aug. 2018*
Manager, RX System Group (14 members) *Chengdu, China*

- Provided IC-based wireless power receiver solutions for mobile phones & accessories.
- Solution for MEIZU POP TWS Earpods is the world's 1st earphones certified by WPC Qi standard.
- Brought the 1st 10W fast wireless charging function to mobile phone GIONEE M7P in China.

H3C Technologies Co., Ltd. *May. 2011-Jan. 2013*
Software Engineer *Wuhan, China*

- Software development (C/C++) in user space and kernel for Linux-based router system.
- Followed CMM dev methodology, completed HLD and UT cases. Deployed GTest environment.
- Implemented network quality analyzer for multi-protocols based on C for H3C Comware platform.

RESEARCH

Areas of Interests: signal integrity, wireless power transfer, device modeling, network algorithm.

Publications: 5 peer-reviewed journals and conference papers.

Presentations: 1 talk and 1 poster on CEMC IAB Meeting in 2016 and 2014.

Academic Projects

- Simulation of HPM / ESD Effects on Semiconductor Device Sept. 2016-Apr. 2017
- Resonance Wireless Power System for Multiple Receiver Devices May. 2015-Apr. 2016
- Automated Channel Emulator Based on MEMS Switch Sept. 2014-Apr. 2016

- Wireless Smoke Detection Based on Structure Similarity of Video — Feb. 2014-Jun. 2014
- Optimal Bandwidth Allocation Algorithm for VoD Streaming — Nov. 2013-Nov. 2015
- Huawei Heat Sink / IC Field Transformation — Jul. 2013-Oct. 2013

SKILLS

Hardware
Schematic, PCB layout, embedded system
ARM, FPGA, Xilinx Zynq, Intel Galileo

Software
C/C++, Perl, Python, Matlab, HTML/CSS, PHP,
Javascript, TCL/Tk, Verilog, Vim/Emacs, LaTex

Measurement
Oscilloscope, VNA, SA, TDR measurement
Near-field scanning, and micro-probing

Simulation
RF simulation: HFSS, CST, EMC Studio
Circuit simulation: ADS, HSPICE

Last updated: November 16, 2018