

Botian Zhang

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EDUCATION

M.S. of Electrical Engineering, University of California, Los Angeles, 2014-till now
Cumulative GPA (4.0/4.0) till now

Exchange Student, Royal Institute of Technology (KTH), Sweden, 2013-2014

Bachelor of Engineering, Electrical Engineering, Southeast University, China, 2010-2014
Cumulative GPA (3.803/4.0) ranks top 5% in the EE department

PROFESSIONAL EXPERIENCE

School of Information and Communication Technology, Stockholm, Sweden
Royal Institute of Technology (KTH), Sweden
Research Assistant September 2013–January 2014
Upstream radio link in wireless sensor network (WSN)

- Analyzing the A.X.25 networking radio transmission on TNC and radio transceivers
- Implementing Raspberry-Pi and Contiki board to transmit the data collected from distributed sensors to the base station.

State Key Laboratory of Millimeter Waves, Nanjing, China
Southeast University, China
Research Assistant May 2012 – May 2013
Design of 3D choke-ring dual-band microstrip antenna

- Analyze the existing choke-ring technique's impact on microstrip antenna
- Propose the structure the high stable phase center dual-patch microstrip antenna and the 3D choke ring.
- Simulate the RF-performance and radiation properties of the antenna on HFSS, ADS
- Draw PCB prints and drafts of choke ring and contact with factory to produce the sample.
- Test the antenna in the microwave laboratory and write the thesis.

Laboratory of Signal Processing Nanjing, China
Southeast University, China
Research Assistant May 2012 – May 2013
Distributed system communication protocol

- Analyze the acoustic energy model and different WSN communication protocols
- Modify the existing LEACH protocol to improve the choice method of the cluster head
- Simulate the modified LEACH protocol in Matlab and OPNET and write the thesis.

PUBLICATIONS

Zhang Botian, Jin Jing, Fan Haoliang, *Design of Dual-band Microstrip Circularly-polarized Antenna with High Stable Phase Center*, The 3rd International Conference on Multimedia Technology (ICMT 2013), Atlantis Press, Guangzhou, China, 2013, submitted to EI compendex

HONORS

05/2012	Xu Shanglong Glorious Career Scholarship
05/2011-05/2012	Academic Excellence Awards
08/2012	The Second Price in TI Design Contest
08/2013-06/2014	Scholarship under the State Scholarship Fund of the Ministry of Education, China

RELATED COURSE WORK

Analog Integrated Circuit Design	Advanced Engineering Electromagnetics
RF Circuits and Systems	Microwave & Millimeter Wave Circuits
Advanced Internetworking	Communication Systems
Digital Circuit Design	Computer Architecture

TECHNICAL SKILLS

Software Used:	HFSS, ADS, Matlab, Cadence, NI Multisim, Protel, AutoCAD, OPNET, Quartus
Skills:	Analog and RF Circuit Design, Microstrip and horn antenna design, Microwave circuit design, Wireless Analog and Digital Communication Systems, Electromagnetic analysis
Programming languages:	C++, Matlab, VHDL