Liang Li

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Summary

Apply for internship in RF design / Signal integrity related area

Education

Missouri University of Science and Technology   Aug. 2013—Present

M.S. Electrical Engineering, GPA 4.0/4.0 Advisor: Dr. Jun Fan

Huazhong University of Science and Technology   Sep.2009—May.2013

B.S. Electrical Engineering, GPA 3.7/4.0, Ranking 2/20 (Special Class)

Related Courses

Analog/Digital/RF Circuit	Antenna Analysis and Design
Interference Control	Advanced RF&TD Measurement
Advanced Electromagnetics	Computational Electromagnetics
Signal Integrity	VLSI Design

Research Experience

1. **NF-FF Transformation (Huawei)**   Sep. 2013-Nov.2014
   - Estimating radiation from noisy IC in far-field by near-field scanning
   - Studying coupling from noisy IC to peripheral RF device in near-field
   - Developing a GUI tool for NF-FF transformation
2. **RFI Analysis for Cellphone System (Samsung)**   Sep. 2013-Present
   - Evaluating RFI issue in mixed RF/digital circuits by reciprocity theorem
   - Predicting the coupled noise power from radiation source (IC etc.) to neighboring sensitive RF antenna by near-field scanning technique
   - Simulating the shielding can effect on RFI estimation
3. **Emission Test for IC (Amkor)**   Nov. 2014-Jan.2015
   - Measuring far-field and near-field radiation pattern originates from a series of weakly radiating IC with different shielding processes
   - Analyzing shielding performance of IC with different shielding processes
4. **RFI Estimation for IC radiation (Microsoft Mobile)**   Jan.2015-Present
   - Creating model for radiation source in simulation tool
   - Simulating noise/signal power on RF antenna and compare with measured power
   - Integrating the RFI estimation method into simulation tool by macro programming

Related Skills

- o **Software**: HFSS, CST MWS, EMCstudio, ADS, Cadence Allegro, Cadence Virtuoso, HSPICE
- o **Programming**: Proficient in Python, Matlab, C/C++; experience with VB, Verilog HDL
- o **RF Equipment**: VNA, Spectrum Analyzer, TDR, Oscilloscope, etc.

Selected Honors

National Scholarship for Encouragement

Outstanding Academic Performance Scholarship

National Student Stipend

National Undergraduate Innovative Training Program Funding

Excellent Graduate in Year 2013

3rd Prize in Huazhong Cup of Mathematical Modeling Competition

Publications

- "Near-field Coupling Estimation by Source Reconstruction and Huygens's Equivalence Principle", to be appeared 2015 IEEE symposium on EMC & SI
- "Measurement Validation for Radio-Frequency Interference Estimation by Reciprocity Theorem", to be submitted to International Symposium on EMC in Germany 2015

Website

http://leeo1116.github.io/