

# QING LIU

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## EDUCATION

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<b>Columbia University, Fu Foundation School of Engineering and Applied Science</b>	<b>New York, NY</b>
MS in Electrical Engineering	Expected December 2012
GPA: 3.42/4.0	

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<b>Beijing University of Posts and Telecommunications</b>	<b>Beijing, China</b>
BS in Telecommunications Engineering with Management	June 2011
GPA: 3.4/4.0 First Class Degree	

## INTERNSHIP EXPERIENCE

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<i>Potevio Institute of Information Technology Co., Ltd., China</i>	Jun-Aug 2012
* Simulated BLER performance under different MCS level and draw simulation diagram	
* Simulated PDCCH pilot and draw simulation diagram	

## HONORS AND AWARDS

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* <b>Excellent Student Cadre</b> of Beijing University of Posts and Telecommunications	2008
* <b>Third Prize Scholarship</b> of Beijing University of Posts and Telecommunications	2009

## RESEARCH AND PROJECT EXPERIENCE

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<b>Hybrid Floating Point Integer Unit</b>	Dec.2011
* Built a specialized floating-point adder using a top-down RTL design.	
* Synthesized FSM using Altera Quartus to implement FPGA in VHDL code for simulation.	
<b>Designing Antony, a Microprocessor for Nucleotide Matching</b>	Dec.2011
* Optimized hardware configuration including processing cores, memory hierarchy, and clock frequency.	
* Optimized software configuration using language C.	
<b>Software Engineering for Automatic Vending Machine System</b>	Feb.2010
* Draw the sequence diagram, communication diagram and interface prototype.	
* Generated the whole code and tested code to verify the results.	

## PAPERS AND PUBLICATIONS

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* <b>To create DDA by the Approach of ANN from UCT-Created Data</b>	
<i>International Conference on Computer Application and System Modeling</i>	Oct.2010
* <b>The mobile scenario influence on DTN routing</b>	
<i>Asia Communications and Photonics Conference and Exhibition</i>	Sept.2010
* <b>Automatic Vending Machine Control System</b>	Feb.2010
* <b>The Sociology of Online Chat Rooms</b>	Apr.2011

## SKILLS

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Language: Java, CPLEX, AMPL  
Software: Eclipse, Matlab

## MAIN COURSES

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### **Columbia University, Fu Foundation School of Engineering and Applied Science**

**New York, NY**

Network Science	Mobile HCI
Computer Architecture	Analysis of Algorithms
Advanced Logic Design	Modern Display
Applied Integer Programming	Principles of Device manufacturing
Content Distributed Networks	Communication Theory

### **Beijing University of Posts and Telecommunications**

**Beijing, China**

Electric and Magnetic Fields	Fundamentals of Electronic Circuit
Digital Circuit Design	Digital System Design
Microwave & Optical Transmission	Microwave Electronics