

Christine Kim

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Education

University of Michigan, Ann Arbor, Michigan, Sept 2006 – present

M.S. in Electrical Engineering: Systems

Korea University, Seoul, Korea, March 2002 – Feb 2006

B.E. in Radio Communications Engineering

GPA: 3.99/4.5

Research Focus

Signal processing: Sensor management

Internship Experience

LG Telecom, Seoul, Korea, July 2004 – Aug 2004

Access Network Engineering Team

Visited Base Stations and joined several implementations of new antennas at the base station

Project Experiences

- Designed a ‘Spatial Adaptive Wavelet Based Multiscale Image Restoration system’ based on a paper ‘Spatial Adaptive Wavelet Based Multiscale Image Restoration’ by Mark R. Banham and Aggelos K. Katsaggelos
Mathematical Method for Signal Processing: 2006, first semester
- Simulated Ultrasound, MRI, and CT Medical Imaging Systems
Medical Imaging System: 2006, first semester
- Designed an Alamouti coded system with MATLAB
Project Lab II: 2005, second semester
- Designed an OFDM simulator with MATLAB
Project Lab: 2005, first semester
- Designed a 16QAM modulator which equips random data generator and random carrier phase generator, coherent demodulator and optimal detector with MATLAB
Communication Theory II: 2005, first semester
- Designed a program that demonstrates the total voltage on a transmission line with different load and source termination with MATLAB
Electromagnetic: 2005, first semester
- Programmed a QPSK modulator with random bit generator and found its BER curve with C
Wireless Network: 2005, first semester
- Programmed a system that generates PN sequence and expressing it into a pulse, a Gaussian pulse, and its spectrum with MFC
Optical Engineering: 2004, second semester

Scholarships & Awards

- Honors Scholarships, 1st Semester, 2005, Korea University
- Scholarships to intensify Radio Educations, 2nd Semester, 2004, Ministry of Information and Communication Republic of Korea
- Honors Scholarships, 1st Semester, 2004, Korea University
- Scholarships to intensify Radio Educations, 2nd Semester, 2003, Ministry of Information and Communication Republic of Korea
- Work-Study Scholarships, 1st Semester, 2003, Korea University
- Semester High Honors, 2nd Semester, 2004, Korea University
- Semester High Honors, 1st Semester, 2002, Korea University
- Freshmen Special Scholarships, 1st Semester, 2002, Korea University
- First Prize for Best Program Work at TV show “Challenge! I’m a VJ (Do-jeon! Nado VJ!: 도전! 나도 VJ)”, August 2004, KBS KOREA

Mathematics & Programming skills

- Enrolled in mathematics and related courses offered by the Department of Engineering;
"Engineering Mathematics I, II"
"Probability"
"Signals and Systems"
"Digital Signal Processing"
"Linear System"
which covered Linear algebra, Complex Analysis, Laplace Transform, Fourier Transform and Probability Theorem, and achieved an average A: 2003 first semester to 2004 second semester
- Enrolled in computer courses that were mandatory for basic programming;
"Computer Science and its application I, II"
"Software Engineering"
which covered Java, C and C++ and achieved all A+
- C, Visual C++, MFC, Java, MATLAB, ADS, PSpice, Photoshop, and HTML

Extracurricular Activities

- Taught high school Math and English to many high school and middle school students as a private tutor for 5 years, 2002 – 2006
- Violinist, *MUSEF*, Chamber orchestra of graduated students of Ewha girls' foreign language high school, Seoul, Korea, Jan 2005 – Aug 2006
- Member of *Korea University Television system, KUTV*, Korea University, Seoul, Korea, Oct 2002 – Oct 2003

Voluntary Activities

- Volunteered as a guider in 'International Relation Conference 2006', Seoul, Korea, April 2006
- Volunteered as a translator in 'IT Korea KIECO Convention 2006', Seoul, Korea, April 2006
- Volunteered as a guider in 'SportsAccord 2006', Seoul, Korea, April 2006
- Taught Korean to an international student at Korea University, Seoul, Korea, Feb 2006 – March 2006
- Cared for orphans at *Sangrokwon*, Seoul, Korea, Nov 2003