

ESER USTUNEL

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OBJECTIVE

Seeking a PhD degree in Signal Processing & Telecommunications starting in 2006/FALL

EDUCATIONAL BACKGROUND

2004 – present **MS** in Electrical and Computer Engineering at
Wichita State University (WSU), Wichita-KS, USA
Expected Graduation: May 2006
CGPA: 3.75/4.00
Specialization Area: Signal Processing & Telecommunications

1999 - 2004 **BS** in Electrical and Electronics Engineering at
Middle East Technical University (METU), Ankara, TURKEY
Date of Graduation: June 2004
CGPA: 3.11/4.00
Specialization Areas: Telecommunications & Computer

EXAM SCORES

GRE (2003): (V)320/ (Q)800/ (AW)3.5

EXPERIENCE

Research Assistant **Electrical and Computer Engineering, Wichita State University**
(August 2004-present) Wichita, KS – USA

Under supervision of **Prof. Dr. Hyuck M. Kwon**

- Thesis/Project: TDD-WCDMA(1.28Mchips/s case) for SAMSUNG
(1/2005-12/2005, \$50,000)

Tasks with the guides of 3GPP specifications (3GPP TS 25.XXX series);
QPSK, 8PSK, and 16QAM modulations, spreading, multipath fading
channel, convolutional, and Turbo coding, transmit diversity, power
control, channel estimation and DOA

- Sensor Networks
- Source-Channel Coding
- Error Control Coding; Convolutional (Viterbi Algo.), Turbo Coding (LOGMAP Algo.), LDPC (Sum-Product Algo.)
- MIMO techniques (Space Time Codes); STBC, DSTBC
- Smart Antennas (Direction of Arrival); MUSIC

Grading Assistant

(Spring2005)

Electrical and Computer Engineering, Wichita State University

Wichita, KS – USA

Under supervision of **Prof. Dr. Hyuck M. Kwon**

- Digital Communications-I

RELEVANT COURSE WORK

- Digital Image Processing
- Video Processing
- Digital Signal Processing
- Detection & Estimation
- Digital Communications
- Analog Communications
- Error Control Coding
- Advanced Signal Processing for Wireless Multi-user Detection
- Wireless Spread Spectrum Comm.
- Probability, Random Variables and Stochastic Processes
- Linear Algebra
- Data Comm. Networks

COMPUTER SKILLS

- **Programming Languages:** Matlab, C/C++, Visual Basic, Labview, Latex
- **Operating Systems:** Windows 9X/NT/2000/XP, DOS, Unix
- **Engineering Design Tools:** Electronic Workbench, Pspice

REFERENCES

- | | |
|----------------------------|---|
| Dr. Hyuck M. Kwon | <i>Dept. of Electrical and Computer Eng.</i> hyuck.kwon@wichita.edu – (316) 978 6308 Wichita State University, Wichita, KS, USA |
| Dr. Coskun Cetinkaya | <i>Dept. of Electrical and Computer Eng.</i> coskun.cetinkaya@wichita.edu – (316) 978 6314 Wichita State University, Wichita, KS, USA |
| Dr. Kameswara Rao Namuduri | <i>Dept. of Electrical and Computer Eng.</i> kamesh.namuduri@wichita.edu – (316) 978 5509 Wichita State University, Wichita, KS, USA |
| Dr. Ahmet Rumeli | <i>Dept. of Electrical and Electronics Eng.</i> rumeli@metu.edu.tr – 90 (312) 210 2350 ODTU 06531 Ankara, TURKEY |

ACHIEVEMENTS

- (2003) Ranked 403th in the nationwide graduate scholl entrance examination among 200thousand students in Turkey
- (1999) Ranked 448th in the nationwide university entrance examination among 1.5million students in Turkey
- (1996-1999) Highly Qualified Students Fellowship by Samanyolu Private Science High School