

Mustafa Said Mehmetoglu

Experience

Senior Engineer, Qualcomm Inc.

2016 - Present

Responsible for research, design, development, commercialization and customer support for mobile communication chips.

Graduate Student Researcher at University of California, Santa Barbara

2012 –2016

Advisor: Prof. Kenneth Rose

- Optimum zero delay encoding - decoding schemes for networks using joint source-channel coding techniques
- Deterministic annealing based optimization of encoder and decoder mappings to achieve state of the art performance
- State of the art solution for Witsenhausen's counter-example and a general optimization framework for related decentralized control problems
- General Research Interests: Signal Compression, Optimization, Wireless Communications, Communication Theory, Signal Processing, Information Theory, Network Coding

Teaching Assistant at University of California, Santa Barbara

2011- 2012

Courses Taught: Digital Signal Processing, Fundamentals of Logic Design, Probability and Statistics.

Research Consultant for Intel, through Prescouter Inc.

2015

Project: Technology survey and study.

Engineering Intern at EEM Automation Systems, Konya, Turkey

2010

Embedded system design and implementation for automated elevator control.

Engineering Intern at Optisis, Ankara, Turkey

2009

Design and development of FPGA based jamming device.

Senior Projects at Bilkent University, Ankara, Turkey

2010-2011

Robotic Arm Design
Underwater Acoustic Telephone for Voice Communication
IC Design: General Purpose OPAMP
Digital Design and Simulation Software in JAVA

Education

Sep 2016

PhD in Electrical Engineering, University of California, Santa Barbara
Thesis: A Deterministic Annealing Framework for Global Optimization of Delay-Constrained Communication and Control Strategies
Advisor: Kenneth Rose
GPA:4.0/4.0

Jun 2011

Bachelor of Science in Electrical Engineering, Bilkent University, Ankara, Turkey

GPA: 3.9/4.0

Relevant Course Work

Graduate Signal Compression, Information Theory, Digital Signal Processing, Error Correcting Codes, Optimum Estimation and Filtering, Game Theory, Machine Learning

Undergrad Embedded Systems, Telecommunications, Computer Networks

Achievements and Awards

Apr 2015 ECE Dissertation Fellowship, University of California, Santa Barbara
2006 - 2011 Full Scholarship, Bilkent University
2006 - 2011 Presidential Financial Aid, Council of Higher Education, Turkey
Jun 2006 19th place in Nationwide University Entrance Exam, Turkey
May 2005 1st place in Central Anatolia Region, Nationwide Mathematical Olympiads
May 2004 Gold Medal, Nationwide Mathematical Olympiads
May 2003 Silver Medal, TUBITAK Nationwide Mathematical Olympiads

Computer Skills

Advanced C/C++, MATLAB
Intermediate Perl, LaTeX, NVIDIA CUDA, VHDL
Basic HTML, CSS, iOS (Objective-C), Java, Assembly

Languages

Turkish - Native
English - Advanced
Arabic - Basic