

Khshayar Kamran

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RESEARCH INTERESTS

Wireless Communications and Networks
Communication Theory, Information Theory and Coding
Positioning and Localization Systems
Digital Signal Processing

EDUCATION

School of Electrical and Computer Engineering Tehran, Iran
University of Tehran
B.Sc. Student in Electrical Engineering - Communication Systems 2010 - present
Expected Graduation Date : June 2015

- Total Passed Credits: **130**
- Total Average: **17.21/20**
- Grades in Some Related Courses
 - Probability and Statistics : **18.5/20**
 - Telecommunication I (Analog Communication) : **17.5/20**
 - Telecommunication II (Digital Communication) : **17/20**
 - Digital Signal Processing : **16.9/20**
 - Stochastic Processes (M.Sc. course): **18.5/20**
 - Information Theory (M.Sc. course): **16.6/20**
 - Wireless Multimedia Communication : **17.2/20**
 - Computer Networks : **17.5/20**

Allameh-Helli Highschool Tehran, Iran
National Organization for Development of Exceptional Talents
Diploma in Mathematics and Physics Discipline 2006 - 2010

HONORS & AWARDS

- Ranked Among 20% Top Students in the School of Electrical & Computer Engineering, University of Tehran Up to Now
- University of Tehran Exceptional Talent Entrance 2010
- Ranked 116th Among More Than 87,000 Participants in Iranian National University Entrance Exam (KONKOOR Exam) 2010
- Admitted to Allameh-Helli High School (An Eminent High School Managed By National Organization for Development of Exceptional Talents) 2006

LANGUAGE SKILLS

Persian: Native

English:

TOEFL iBT: 107 (Reading: 27, Listening: 30, Speaking: 23, Writing: 27)

GRE: Verbal: 155 , Quantitative: 166 , Writing: 3

NOTABLE PROJECTS

B.Sc. Final Project: Indoor Positioning Algorithms on Smart Phones Spring 2014 - present

Location: Mobile Communication Systems Laboratory, University of Tehran

Designing and implementing algorithms based on compressive sensing, clustering and particle filtering to have an accurate indoor position on smart phones. We used RSS from WLANs in building and motion sensors in cell phones.

Prof. Lahouti , ECE Department, University of Tehran

Internship: Designing The Digital Communication Laboratory Summer 2013 & Summer 2014

Location: Signal Processing & Communication Systems Laboratory, University of Tehran

Designing the Digital Communications Laboratory for the first time in the Department of Electrical Engineering. We worked on subjects like information theory, PCM & sampling, PAM & pulse shaping, ISI & eye diagram, OFDM and digital modulations such as ASK, PSK, FSK in order to put them on lab manuals. We designed a 5 stage lab, each of which includes prelab and MATLAB simulations. I also simulated all stages in the process.

Online Coded Caching methods

Spring 2014

Information Theory Course Project

The project was about Online Coded Caching and its effect on reducing the network traffic rate over crowded links. I simulated caching methods such as LRS (Least Recent Sent) and LRU (Least Recent Used) and analyzed them.

Prof. Lahouti, ECE Department, University of Tehran

Data Watermarking in Audio Signals

Spring 2014

Real-time Digital Signal Processing Laboratory Course Project

I Studied the methods of data watermarking in audio signals which can be implemented on DSK 6713 boards (A member of TI processors) and successfully implemented a FFT based method on these boards.

TEACHING EXPERIENCE

Teaching Assistant for Electrical Circuit Laboratory Course

Fall 2012

Teaching Assistant for Digital Signal Processing Course

Spring 2013

Prof. Akhaee, ECE Department, University of Tehran

Teaching Assistant for Signal and Systems Course

Fall 2013

Prof. Akhaee, ECE Department, University of Tehran

Teaching Assistant for Microprocessor Course

Spring 2014

Prof. Fatemi, ECE Department, University of Tehran

Teaching Assistant for *Telecommunication II* Course
Prof. Rabiei, ECE Department, University of Tehran

Spring 2014

Certificate of Teaching Assistant

Faculty of Engineering TA Workshop, University of Tehran, Iran

Winter 2014

TECHNICAL SKILLS

Programming:

- Proficient in C/C++
- Proficient in MATLAB

Hardware & Software:

- Proficient in Atmel AVR microcontrollers
- Proficient in Codevision AVR, PSpice and Multisim
- Familiar with NS2 (for simulating communication networks)
- Familiar with C6713 DSK boards

Typesetting:

- Proficient in L^AT_EX, MS Word, MS PowerPoint & MS Excel

OTHER ACTIVITIES

Co-Chair, Mechatronics Science Association of the University of Tehran

2013

Robotic Competitions

Competed in Sharif Cup Robotic Tournament

Summer 2012

HOBBIES AND OTHER INTERESTS

Marketing

Swimming, Hiking and Soccer

Hip Hop & Rock Music

REFERENCES

Dr. Farshad Lahouti, Associated Professor, School of Electrical and Computer Engineering, University of Tehran, Iran.

Dr. Amir Masoud Rabiei, Assistant Professor, School of Electrical and Computer Engineering, University of Tehran, Iran.

Dr. Dariush Bastani, Assistant Professor, Chemical & Petroleum Engineering Department, Sharif University of Technology, Tehran, Iran.

Dr. Omid Fatemi, Assistant Professor, School of Electrical and Computer Engineering, University of Tehran, Iran.

Links to places and people are attached to their names in this document.