

# Amirmasoud Ohadi

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## CONTACT INFORMATION

Department of Electrical and Computer Engineering  
Faculty of Engineering  
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## RESEARCH INTERESTS

Low Power Analog Integrated Circuits, Low Noise Oscillators, High Frequency Integrated Circuits, Wave Propagation in Distributed Circuits.

## EDUCATION

**Cornell University**, Ithaca, New York, United States

*MS/PhD Program*

**Sep. 2014 – present**

- GPA (up to now): 3.86(out of 4)
- Expected graduation date: June 2019

**University of Tehran**, Tehran, Iran

*Bachelor of Science in Electrical Engineering*

**Sep. 2010 – July 2014**

- GPA: 18.75(out of 20)

**Rouzbbeh High School**, Tehran, Iran

*High School Diploma*

**Sep. 2005 – Jun. 2009**

- Field: Mathematics and Physics
- GPA: 19.70(out of 20)

## HONOURS AND AWARDS

**Cornell University MS/PhD Program One-Year Fellowship Award** includes full tuition for the academic year 2014-2015 at \$29,500.00, an academic-year stipend of \$27,790.00, and a Cornell Student Health Insurance Plan valued at approximately \$2,511.00.

**Sharif University of Technology M.Sc. Fellowship Award** as an exceptional talented student and exempt from taking the entrance exam.

**University of Tehran M.Sc. Fellowship Award** as an exceptional talented student and exempt from taking the entrance exam.

**Ranked 2<sup>nd</sup>** in terms of total GPA among 120 electrical engineering students.

**Ranked 1<sup>st</sup>** among all the electrical engineering students in the fields of Telecommunications, Electronics, and Biomedical Engineering in my year.

**Faculty of Engineering (FOE) Award**, University of Tehran, for three consecutive years: 2010 (ranked 3<sup>rd</sup>), 2011 (ranked 2<sup>nd</sup>), and 2012 (ranked 2<sup>nd</sup>).

**Ranked 279<sup>th</sup>** among almost 300,000 participants in Nationwide Iranian Universities Entrance Exam in the field of Mathematics and Physics, June 2010.

## STANDARDIZED TESTS

**TOEFL** Internet-Based Test (Sep. 2013): **104/120**

*Reading: 27, Listening: 28, Speaking: 26, Writing: 23*

**GRE** General Test (Oct. 2013):

*Verbal: 157, Quantitative: 164, Analytical Writing: 3.5*

## INTERNSHIP

**Type Approval Antenna Lab (School of ECE, University of Tehran) Summer 2013**

- Topic: Testing and certifying different types of antennas and electronic circuits from various companies using several advanced experimental instruments.
- Experience gained: Working with several advanced experimental instruments such as: PNA Microwave Network Analyzer 10 MHz - 67 GHz (Agilent E8361C), PSG Analog Signal Generator 250 KHz - 67 GHz (Agilent E8257D), Agilent spectrum analyzer E4448A (3 Hz to 50 GHz), Cascade Microtech M150 MMW Probing Station. Conducting various measurements such as: 2-D and 3-D measurement of antenna radiation pattern, total radiated power, input impedance, VSWR, and frequency response of RF circuits.

## NOTABLE PROJECTS

### Full Design of a Receiver:

Spring 2015

Design and simulation of a Mixer, Oscillator, and LNA which are used in a receiver.  
Radio Frequency Circuits project.

### Design of a High-Bandwidth Voltage Buffer:

Spring 2013

Design and simulation of a high-bandwidth voltage buffer in TSMC-0.35um technology using Hspice. Electronics III final project.

### Digital Oscilloscope:

Winter 2013

A full design and implementation of a digital oscilloscope using FPGA. In this project I designed every components of a digital oscilloscope including ADC, VGA Controller, Triggering System, and Time/Frequency Division Selectors. Digital Logic Laboratory.

### Harmonic Models in Signal Processing:

Winter 2013

In this project I examined the analysis and synthesis of a speech signal based on Harmonic Models using the Autocorrelation Method for pitch determination of the signal.  
Digital Signal Processing Project.

## TECHNICAL SKILLS

**Programming Languages:** C, C++, MATLAB

**Technical Software and Hardware:** Cadence, Hspice, Pspice, ADS (Advanced Design System), Multisim, Quartus II, Modelsim, Code Vision AVR, Proteus, Verilog, HFSS, AVR, FPGA.

## LANGUAGES

- **Farsi:** Native
- **English:** Proficient in Reading, Writing, and Speaking
- **Arabic:** Familiar
- **French:** Familiar

## TEACHING EXPERIENCES

### Electromagnetic Fields and Waves

Fall 2013

Chief Teaching Assistant

*Instructor: Prof. Mojtaba Dehmolaiean*

### Signals and Systems Analysis

Fall 2013

Teaching Assistant

*Instructor: Prof. Maryam Sabbaghian*

### Extracurricular Course of Geometry

spring 2012

Teacher

*Rouzbeh Educational Complex*

## HOBBIES AND INTERESTS

### Swimming

- Assistant Lifeguard Certification from Iranian Lifesaving and Diving Federation.
- Swimming teaching experience (summer 2011 and summer 2012, Manzarieh Sport and Recreation Complex.)

### Hiking, Eco-cultural Tour and Travel

- I have visited many countries such as Italy, Germany, France, Belgium, Netherlands, Czech Rep., China, Thailand, Malaysia, and Saudi Arabia.

### Iranian Folk and Traditional Music

## REFERENCES

### **Prof. Ehsan Afshari**

Associate Professor  
Cornell University  
Ithaca, NY, United States  
phone: 607-255-0603  
e-mail: *ehsan@ece.cornell.edu*

### **Prof. Mahmoud Shahabadi**

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