

Amirhossein Hashemi

Cell: +98 912 4270489

Email: hashemi.amirh@aut.ac.ir

- Education**
- M.Sc. in Electrical Engineering, Communications** 2013 - 2015
- Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
 - **GPA 16.93/20 (3.6/4 in WES format)**
 - **Thesis Title:** *Analysis, Design, and Simulation Of Dielectric mm-Wave Waveguide for Interconnections Under Supervision of Prof. Abdipour*
- B.Sc. in Electrical Engineering, Communications** 2008 - 2012
- Urmia University, Urmia, Iran
 - **Thesis Title:** *Design and Simulation of a Low Noise Amplifier for Wireless Sensor Networks in 0.13 CMOS Process Under Supervision of Dr. Mousazadeh and Prof. Hadidi*
- Work experience**
- Technical Director** of Electromagnetic and Antenna Lab, Tehran, IRAN 2017-Present
- *Design, Simulation, Fabrication of Three Industrial and a One Research Projects in the field of: Antenna, LTE Advanced Mobile communication , Internet of Things, Bioelectromagnetics*
- Technical Director** of Information and Communication Research Center, Tehran, IRAN 2015-2017
- *Establishing Reference Laboratory with Collaboration of Communications Regulatory Authority, Device under test: Handheld personal Radios, cellphones, basestation equipment ... based on the European Telecommunications Standards Institute (ETSI)*
 - *I have done researches and worked on Rapid PCB Prototyping machines Such as: LPKF ProtoMat M60 mill/drill circuit board plotter. LPKF ZelFlow reflow oven LPKF MultiPress II multilayer press*
- Research Interests**
- *Microwave/mm-Wave/THz Circuits and System Design*
 - *RFIC*
 - *Wireless Communications Transceivers(Design and Technology)*
 - *Advanced Microwave and RF transceivers*
 - *Integrated circuits and electromagnetic interfaces*
 - *Active and Passive Antenna Design*
- Selected Academic Courses**
- *Optical Communication Circuits and Systems : 18.5/20*
 - *Nonlinear Microwave Circuits Design : 17/20*
 - *Modern Wireless Networks : 16/20*
 - *Advanced Communications Theory : 17.75/20*
 - *Active Microwave Circuits Design : 18/20*
 - *Digital Signal Processing : 19/20*
 - *Technical English for Electrical Engineering : 19.75/20*

**Academic
Course Projects
and Workshops**

Attending *New Trends in Substrate Integrated Circuits Workshop* Winter 2015.
• *by Prof. K.Wu , Millimeter-wave and Tera-hertz International Conference, Tehran , Iran*

Writing *a MATLAB program to Estimate Effective Bandwidth as Metric of Quality of service for Wireless Networks* Fall 2014.
• *Project for Modern Wireless Networks Course*

Writing *a MATLAB program to Analysis Performance of Optical Waveguides, Fiber Optics, and Optical Interconnections and Verified by COMSOL Multyphysic and Optiwave* Fall 2014.
• *Project for Optical Communication Circuits and Systems Course*

Writing *a program in MATLAB to Estimate Dielectric Constant with Nicholson-Ross-Weir Method*
Design WR90 Fixture for Measuring using Agilent Network Analyzer Winter 2014
• *Final Project for Microwave Measurement*

Designing *an Oscillator with Minimum Phase Noise and Specific Power and Analyzing its Nonlinear Performance using MATLAB and Advanced Design System (ADS).* Spring 2014
• *Project for Communication Circuits Course*

Designing *2 GHz LNA With 15.5 dB Gain and 1.1 dB NF and Simulating its Performance using Advanced Design System (ADS).* Fall 2013
• *Project for Active Microwave Circuits Design Course*

Attending *Strategic Planning Workshop* Winter 2015.
• *by Ministry of Education, Urmia, IRAN*

Simulating *Operational Amplifier with MNMC (Multipath Nested Miller Compensation)*
Fully Simulated with HSPICE.
• *Final Project for Electronics 3 course (BSc)*

Simulating *NE5234 Operational Amplifier*
Fully Simulated with HSPICE.
• *Final Project for Electronics 3 Laboratory (BSc)*

Presentations

Introduction *to Internet of Things* Fall 2014
Amirkabir University of Technology
• *Seminar*

Introduction *to Mixed Signal* Spring 2013
Amirkabir University of Technology

**Academic Work
and Experiences**

Teaching Assistant *of Advanced Engineering Mathematic* Spring 2015
Amirkabir University of Technology, Tehran, Iran

Research Assistant *of Microwave/mm-Wave and Wireless Communication Lab(MMWCL)*
Amirkabir University of Technology, Tehran, Iran 2012-Present

Teaching Assistant of *Advanced Engineering Mathematic*
Amirkabir University of Technology, Tehran, Iran *fall 2015*

Teaching Assistant of *Electric Circuits I*
Urmia University, Urmia, Iran *fall 2011*

Teaching Assistant of *Electric Circuits II*
Urmia University, Urmia, Iran *Spring 2012*

Teaching Assistant of *Fundamental of Electrical Engineering*
Urmia University, Urmia, Iran *Spring 2012*

Internship at *Microelectronic Research Center*
Urmia University, Urmia, Iran *Winter 2012*

**Award &
Honors**

Semi-Finalist in *Mathematics National Olympiad competitions (high school)* 2006

Selected *Selected inventor in National Khwarizmi Competition in Tehran (High school)*
2007

**Skills &
Expertises**

Engineering *Proficiency in Ansoft HFSS, CST Microwave Studio, MATLAB, Advanced Design System (ADS) Cadence Virtuoso, Spectre RF, HSPICE,*

Test and Measurement: *Proficient in Vector Network Analyzers, Signal Analyzer, Spectrum Analyzers, Signal Generators, Oscilloscopes*

General Software: *L^AT_EX, Microsoft Office (Word, Power Point and Excel).*

Operating Systems: *Expert in Microsoft Windows, LINUX Ubuntu.*

Programming Languages: *Familiar in C, C++.*