

## Reza Pazoki, PhD

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### OBJECTIVE

Seeking a postdoctoral position in the areas of electromagnetic research, antennas and propagation, fields and waves, optics, microwave components, etc. at a well-known highly-ranked North American university

### HIGHLIGHTS OF QUALIFICATIONS

- PhD in Electrical Engineering, Fields and Waves, 2014
- Published 12 research papers in peer reviewed journals and invited conferences (h-index: 4)
- Extensive hands-on experience in design and fabrication of several antennas including printed, spiral, LPDA, Yagi, reflector, array, horn, wire loop, dipole, etc. in different frequency bands
- Experience in leading antenna and propagation research groups at different universities
- Solid background in UWB systems, numerical analysis, electromagnetic research, computer-aided modelling and simulation, bandwidth enhancement, and metamaterials

### EDUCATION

- **Iran University Of Science And Technology (IUST)** **Sep 2008-Mar 2014**  
Ph.D., Electrical Engineering, Fields and Waves  
Dissertation: "Radiation bandwidth enhancement of stacked patch antennas maintaining their Impedance bandwidth"
- **Iran University Of Science And Technology (IUST)** **Sep 2000-Oct 2002**  
M. Sc., Electrical Engineering, Fields and Waves  
Dissertation: "Investigation, implementation and optimization of MEI absorbing boundary condition in the FDTD technique"
- **Khajeh-Nasir University of Technology (KNT)** **Sep 1995-Sep 2000**  
B. Sc., Electrical Engineering, Fields And Waves

### HONORS AND AWARDS

- Most popular and most downloaded publication among the top 25 published papers in IEEE Transaction on Antenna Propagation, March 2013
- Rank 900 among more than 200,000 participants in university entrance competition, Sep 1995

### PUBLICATIONS

#### **Journal papers:**

1. H. Oraizi and R. Pazoki, "Radiation bandwidth enhancement of aperture stacked patch antennas," IEEE Trans. Ant. Propag. Vol. 59 No. 12, 2011.
2. H. Oraizi and R. Pazoki, "Wideband Circularly polarized aperture-fed rotated stacked patch antenna," IEEE Trans. Ant. Propag. Vol. 61, No. 3, 2012.
3. H. Oraizi and R. Pazoki, "Radiation characteristics improvement of aperture coupled antennas using double reflector structure," IET MAP, accepted in March 2013.
4. R. Pazoki and A. Cheldavi, "A new technique to find the MEI coefficients in the time domain: "self-metron technique", Progress In Electromagnetics Research, PIER 56, 53–66, 2006
5. R. Pazoki and J. Rashed-Mohassel, "Bandwidth enhancement of resonant slot array antennas," J. of Electromagn. Waves and Appl., Vol. 21, No. 9, 1177–1189, 2007
6. A. R. Mallahzadeh, R. Pazoki, and S. Karimkashi, "A New UWB Skeletal Antenna for EMC Applications," Applied Computational Electromagnetics Society (ACES)
7. R. Pazoki and J. Rashed-Mohassel, Dyadic Green functions for coaxial tubular filters, Progress In Electromagnetics Research M, Vol. 8, 195-205, 200

8. M. R. GhafouriFard , R. Pazoki and M. Akhavan-Bahabadi, "A novel high-gain and broad-beam antenna configuration in VHF band "Progress In Electromagnetics Research Letters, Vol. 8, 25–34, 2009

### Conference papers:

1. R. Pazoki and A. Cheldavi, "A Novel technique to find the MEI coefficients in the time domain: "self-metron technique," IEEE/URSI, Washington DC, USA, June 2005
2. Reza Pazoki, "Application of the measured equation of invariance in the ADI-FDTD method," IEEE, APMC, China, 2005
3. A. R. Mallahzadeh, R. Pazoki, and S. Karimkashi, " A new UWB skeletal antenna for EMC applications," IEEE, MAPE, China, 2007
4. R. Pazoki and M.R. GhafouriFard, "A modification in the single stage Wilkinson power divider to obtain wider bandwidth," IEEE, APMC 2007

### Papers under preparation:

1. Reza Pazoki and Pedram Mousavi : Stacked L-Shaped circular polarized monopole slot antenna with an octave bandwidth
2. Reza Pazoki, M. Nosrati , and A. Jafargholi: Extremely broadband compact blade antenna in HF-VHF-UHF band
3. R. Pazoki, B. ghalamkari and A. Jafargholi: A 30-512MHz band passive loaded wire dipole antenna
4. H. Oraizi and R. Pazoki: An investigation of the method of least squares to solve the spectral domain electric field integral equation

### TEACHING EXPERIENCE

- **Islamic Azad University** **Sep 2011-Sep 2013**
  - Instructor  
Courses taught: Electromagnetic theory, MATLAB programming, Signals and systems, Advanced engineering mathematics
- **Iran University Of Science And Technology (IUST)**
  - Project Supervisor **Sep 2012-Mar 2014**  
Supervised the final projects of undergraduate and graduate students in the antennas and Microwave lab
  - Teacher Assistant **Sep 2000-Jan 2001**  
Electromagnetics theory

### PROFESSIONAL EXPERIENCE

- **Team Lead, Antenna and Microwave Group,** **Dec 2013-present**  
Amir-Kabir University of Technology  
Tehran, Iran
  - Designed and implemented an extremely wide band HF-VHF-UHF blade and loaded wire antennas
  - Performed electromagnetic studies for several antennas and microwave modules using HFSS, CST and other professional simulation packages
- **Team Lead, Antenna and propagation Group,** **March 2010- March 2012**  
Sharif University of Technology (F. S. Sharif Co)  
Tehran, Iran
  - Designed and managed the fabrication of space wave and surface wave HF antennas
  - Led a team of engineers and technicians from different disciplines including electrical, telecommunications, electronics, etc.

**Research Engineer**, Antenna Group, RKC  
Tehran, Iran

**Sep 2005-March 2010**

- Designed and managed the implementation of new antenna topologies such as compact LPDAs, horns, omni-directional slant polarized antennas, spirals, loops, V-dipoles, etc.
- Studied radiation parameters of different antennas using measurement equipment such as VNA, spectrum analyzer, etc.

#### TECHNICAL SKILLS

- Design and fabrication of various antenna topologies (e.g. stacked patch, printed spiral, reflector, LPDA, dipole, biconical antennas and etc.)
- Working with different test and measurement equipment such as oscilloscope, microwave power meter, spectrum analyzers, pulse generator, network analyzer, etc.
- Software (experienced in CST, HFSS, ADS, FEKO, Matlab, etc.)

#### LANGUAGE PROFICIENCY

##### **IELTS**

Overall band score: 6.5 (speaking:7, listening:7, reading:6, writing:6.5), Nov. 2013

#### REFERENCES

##### **Dr. Homayoon Oraizi**

Professor, Iran University of Science and Technology (IUST)  
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##### **Dr. Pedram Mousavi**

Associate Professor, University of Alberta  
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##### **Mohammad Reza Ghafouri-Fard**

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