

Farshad Keshmiri

PhD in Electrical Engineering

Belgian nationality

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SUMMARY

8 years of experience in Electromagnetics, Antenna design, and signal processing

EXPERIENCES

R&D Engineer

2012-now

ART-FI (Advanced Real-time Field Imaging) , France

Clients: *Wireless telecom industries*

Product : The first working SAR assessment machine capable of instant regulatory compliance accuracy for testing all available communication modes (GSM, WCDMA, WLAN, LTE) within 0.7–6 GHz frequency range

My Task: Responsible of Electromagnetic signal processing group

- Algorithm design for advanced field reconstruction in body and head
- Responsible of firmware block qualification
- Performing design and production reviews and developing roadmap for next versions
- Efficient collaboration with RF, industrialization, marketing, software teams

Research Engineer

2007-2012

Antennas and EM group, UCL, Belgium

Design antenna, producing industrial prototypes and measuring antenna characteristics for European projects

Projects and partners:

- Tracking mobile people or objects based on wireless sensor networks
36 months, 0.7M€, responsible: *MULTITELL* (BE)
My outcome: A patented antenna technology to commoditize phased-arrays for real-time localization
- Intelligent control of adversary radio communications
30 months, 4.2M€, responsible: *Thales Comm* (FR)
My outcome: Two types of productionized 3D wideband vehicle-mounted antennas

Developing theory of on-body propagation (PhD awarded)

- Wireless acquisition and link for body information for Bio-medical applications
36 months, 1.3M€, responsible: *UCL- ULB* (BE)
My outcome: A patented antenna technology for efficient on-body communication

Research Engineer

2005-2007

Satellite communication group, ITRC, Iran

- Designing and prototyping high-gain Metamaterial antennas for satellite communications within 11-14GHz frequency band

SKILLS:

Computer Skills

- Algorithm design, Matlab Programming (10 years),
Fullwave EM simulators: CST Microwave Studio, HFSS, EMPIRE, NEC (8 years)

Technical Skills

- 3-D Electromagnetic computation, Field Imaging, Specific Absorption Rate numerical and experimental assessments, Spectral Analysis, Green's functions
- Antenna and Array design: Small Antennas, Parasitic Steerable Antennas, UWB Antennas, Fractal and Microstrip Antennas
- Hands on Antenna testing, RF devices, anechoic chamber and turntable, PNA, Oscilloscope, Microwave devices, Communication Testers (GSM, WCDMA, WLAN, LTE)
- Signal processing techniques for field imaging, de-noising, de-convolving, regularizing

Management Skills

- Project and risk managements (2 years), process communication, Assessing production reviews (1 year), team management(4 persons–1 year)

EDUCATION

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|---|-----------|
| Ecole Polytechnique of Louvain, UCL (Belgium) | 2007-2012 |
| <ul style="list-style-type: none">• Ph.D. Electrical Engineering | |
| Iran University of Science and Technology | 2004-2006 |
| <ul style="list-style-type: none">• B.Sc and M.Sc. Electrical Engineering | |

ADVANCED TRAINING

Planar and conformal antennas (EPFL, Switzerland, 2008), advanced mathematic for antenna analysis (Zagreb Univ., Croatia, 2008), compact antennas (UPC, Spain, 2009), Mutual Antenna coupling (UCL, Belgium, 2010), Metamaterials (UCL, Belgium, 2012)

AWARDS

- Best-students course grants award, Universitat Politècnica de *Catalunya, Spain*, 2009
- Best-Master thesis grants award, ITRC, Iran, 2007
- Second-highest ranking graduation of Telecom Master students, Iran, 2007
- Rank among the first 0.5% in Iran Concours of 1999

LANGUAGES

- English (fluent), French (intermediate), Persian (mother tongue)

PUBLICATIONS

- Co-authoring more than 30 scientific contributions and patents