

## Contact

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## Top Skills

Signal Processing  
BSS  
Speech Processing

# Rahil Mahdian Toroghi

Machine Learning for Signal Processing lab (MLSP-lab\_IRIBU)  
Iran

## Summary

Computer skills:

Digital Signal Processing HW/SW, MATLAB, Verilog/VHDL, C/C++,  
Tcl, (X86, TMS, PIC) assembly.

Languages:

Persian(Native), Azeri(Fluent), English(Fluent), Arabic(Good),  
German(Beginner). Russian(Good)

Specialties: DSP Texas HW/SW, BSS, Speech Processing, Digital  
Design with Verilog, MATLAB RTW and HW toolkits.

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## Experience

Faculty of Engineering and Media Technology, IRIBU

Assistant Professor

October 2017 - Present (7 years 2 months)

Tehran, IRAN

Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI)

Researcher

June 2013 - December 2014 (1 year 7 months)

Saarbrücken Area, Germany

Research and development on NonIntrusive Appliance Load Monitoring  
Systems (NIALM) using Machine Learning and Blind Source Separation  
methods

ACECR - KNTU University branch

Senior Researcher - Digital Design Group

August 2008 - June 2010 (1 year 11 months)

Smart Gates Research Supervisor, Ultrasonic Helicopter Landing System

Research developer, DSP Lab teacher

SAIRAN - Space Mission Group

Senior Reseacher and Developer

May 2000 - August 2008 (8 years 4 months)

Designing the SINA-1 satellite, Senior Designer and developer of the On-board Computer of the OMID-satellite

Mobile System Design and Development - SAMA

Researcher

May 1998 - May 2000 (2 years 1 month)

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## Education

Universität des Saarlandes

Doctor of Philosophy (PhD), Electrical Engineering- Mechatronics (Machine Learning for Signal Processing) · (2011 - 2016)

Sharif University of Technology

Master, Digital Electronics · (2005 - 2007)

Amirkabir University of Technology- Polytechnic

B.Sc, Electronics · (1993 - 1997)