
Curriculum Vitae

Amin Kianinejad

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Research Fields of Interest:

- Microwave plasmonics, Metamaterial and plasmonic devices.
 - Graphene Metamaterials/Electronics, metamaterial antennas and waveguides.
 - Antenna theory and design .
 - Theoretical and Computational Electromagnetics.
 - Design and analysis of linear and nonlinear microwave circuits.
 - Wave propagation in wireless communication systems.
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Educational Background:

- **National University of Singapore, Singapore (start: Jan 2013)**
PhD in Electrical Engineering (Research Topic: Metamaterial Plasmon Antenna)
GPA (first Semester): 4.33 out of 5.
 - **Sharif University of Technology, Tehran, Iran (2008-2010)**
M.Sc. in Electrical Engineering (In Optical and Microwave Communications)
Thesis title: Scattering Analysis from Periodic Rough Surfaces Using Spectral-FDTD
GPA: 3.75 out of 4.
 - **Shiraz University of Technology, Shiraz, Iran (2004-2008)**
B.Sc. in Electrical Engineering (with honors) Total
Thesis title: Investigation of electromagnetic absorbers in microwave and Terahertz regime
GPA: 3.60 out of 4.
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Honors and Awards:

- SINGA scholarship award (2013).
- Ranked **33rd** among 30,000 participants in the Electrical Engineering nationwide universities entrance exam for M.Sc. degree (Winter 2008).
- Ranked between 1% acceptances in the nationwide universities entrance exam for B.Sc. degree (Summer 2004).

Languages:

Farsi: Native

Arabic: Elementary

English: Fluent

Journal Publication:

- A. Kianinejad, Z. N. Chen, and C.-W. Qiu, "Design and Modeling of Spoof Surface Plasmon Modes-Based Microwave Slow-Wave Transmission Line," *IEEE Trans. Microw. Theory Tech.*, vol. 63, no. 6, pp. 1817–1825, Jun. 2015.
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Relating Courses:

Bachelor: Electromagnetics, Fields and Waves, Antenna Design, Microwave Engineering, RF circuit design.

Master: Advanced Electromagnetics, Numerical Methods in Electromagnetics, Electromagnetic Wave Scattering, Advance Mathematics in Electromagnetics, Laser and Photonic Crystal, Microwave Semiconductor Devices, Microwave Nonlinear Circuit Design, Fiber Optics.

PhD: Advanced Electromagnetic Wave Theory and Antenna Engineering, Electromagnetic Wave Theory and Advanced Multi-Antenna Communications.

Experience:

Teaching Experience:

Spring 2015	Teaching Assistant, Electrical and Computer Engineering department
Spring 2014	National University of Singapore, Singapore EE 4104: Microwave Circuits and Devices.
Fall 2014	Teaching Assistant, Electrical and Computer Engineering department
Fall 2013	National University of Singapore, Singapore EE 4104: High Frequency Techniques.
Fall 2012	Lecturer: Electrical and Computer Engineering department, Jundi-Shapur University of Technology, Dezfool, Iran, Signals and Systems.
Fall 2010	Lecturer: Electrical and Computer Engineering department, Jundi-Shapur University of Technology, Dezfool, Iran, Engineering Mathematics.
Fall 2007	Teaching Assistant, Electrical Engineering department Shiraz University of Technology, Shiraz, Iran Electrical Circuits.

Research Experience:

2013-now	Metamaterial Plasmon Antenna (PhD thesis topic, under supervision of Prof. Chen). Spoof Surface Plasmon modes in Microwave Engineering. Spoof Surface plasmon modelling by circuit elements. Groundless Transmission line based on Spoof SPPs: design and fabrication.
2012	Switch LNA (0.5 GHz to 18GHz): design and fabrication. Single and multiple stages Microwave Amplifier: design and fabrication. RF Mixer, design and fabrication. Microstrip Filters design and implementation (LC, Comb line, Interdigital and Hairpin).
2011	Smart Antenna (Phased Array design, AOA estimation). Log Periodic Antenna (4-18 GHz) simulation (CST).
2010	Scattering Analysis from Periodic Rough Surfaces Using Spectral-FDTD (M.Sc. thesis, under supervision of Prof. Shishegar).
2008	Investigation of electromagnetic absorbers in microwave and Terahertz regime (B.Sc. thesis, under supervision of Prof. Mahzoon).

Working Experience:

2012	RF Engineer at Frarmoj Pajouh Company: Microwave and RF active and passive circuit design, Antenna Design.
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Professional Service

- Reviewer for: IEEE Transaction on Microwave Theory and Techniques; Advanced Electromagnetics Journal; IEEE MTT-S International Microwave Workshop series on Advance Material Processes 2015.
- Member of the IEEE Antenna and Propagation society and IEEE Photonic Society.
- IEEE Photonics Society Singapore Chapter Student Branch: Vice President.

Technical Skills

- Simulation software: **ADS, CST Microwave Studio, Microwave Office, HFSS, FEKO, Comsol Multiphysics, PSpice, Electronic Workbench, Proteus.**
- Software: **Proficient in Microsoft Office tools (Word, Excel, and PowerPoint).**
- Programming software: **MATLAB, C, Mathematica.**