

# Seyed Ali Razavi Parizi

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## Courses:

- Electromagnetic Fields and waves (under graduate)
- Theory of advanced electromagnetics (graduate)
- Antenna II (graduate)
- Printed circuit antennas (graduate)
- Optical communication systems (graduate)

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## Education:

PhD: University: Ferdowsi University of Mashhad, Iran

M.Sc: University: Ferdowsi University of Mashhad, Iran

B.Sc: University: Shahid Bahonar Kerman, Iran

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## Research experiences

**MSc Thesis** (under supervision of Prof. Amir reza Attari, *Department of electrical engineering, Ferdowsi University of Mashhad, Iran*):

- High frequency methods for calculation of backscattered fields from large objects.
- Improving the flatness of RCS pattern for corner reflectors.

**PhD Thesis** (under supervision of Dr. Mohammad Hassan Neshati, *Department of electrical engineering, Ferdowsi University of Mashhad, Iran*):

- Application of SIW technology in design and fabrication of antennas (Our focus were on Horn, cavity backed, leaky wave and slot array antennas).

## Visiting scholar

1. Chalmers University of technology, Sweden, 2013 (with Prof. Per-Simon Kildal, *Department of signals and systems, division of antenna systems*)

Design and fabrication of a high gain planar slot array antenna at 60 GHz based on SIW and gap-waveguide technologies (*This work was supported in part by Hawei Technologies Sweden AB via a project to Gapwave AB, Gothenburg, Sweden*).

2. Chalmers University of technology, Sweden, 2017 (with Dr. Ashraf Uz Zaman, *Department of signals and systems, division of antenna systems*)

Design of a 60GHz multi beam antenna for fixed access points using gap waveguide technology

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### **Academic and professional membership:**

- European Association on Antennas and Propagation (EurAAP).
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### **Honors and awards:**

- Best antenna engineer silver award from antenna group in Chalmers University of Technology, Sweden, 2013.
  - Best researcher of electrical engineering group in Ferdowsi University of Mashhad, Iran, 2013.
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### **Patents:**

“A Planar Multilayer Antenna” European Patent Office, WO2015172841 (A1), 2015-11-19, Applicant: Huawei Tech Co Ltd.

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### **Publications:**

#### **Conference papers**

- [1]. F. Ahmadfard, **Seyed Ali Razavi**, “Backlobe suppressed H-Plane ridge gap waveguide (RGW),” *Iranian Conference on Electrical Engineering (ICEE)*, Tehran, 2017.
- [2]. N. Hassani, M. H. Ostovarzadeh, **Seyed Ali. Razavi**, “Ridge gave waveguide (RGW) cavity and its analytical model,” *International conference on New Perspective in Electrical & Computer Engineering*, Tehran, 2016.
- [3]. F. Ahmadfard, **Seyed Ali Razavi**, “H-Plane horn antenna in ridge gap waveguide technology,” *Iranian Conference on Communication Engineering (ICCE)*, Shiraz, 2016.
- [4]. A. Moghimizadeh, **Seyed Ali. Razavi**, M. H. Ostovarzadeh, “Cavity backed slot antenna based on groove gap waveguide technology,” *International conference on New Perspective in Electrical & Computer Engineering*, Tehran, 2016.
- [5]. **Seyed Ali. Razavi**, Mohammad H. Neshati, "Modified substrate integrated wave guide (SIW) horn antenna," *European Conference on Antennas and Propagation (EuCAP)*, pp. 1307-1310, Davos, 2016.
- [6]. **Seyed Ali Razavi**, Per-S. Kildal, “An air-filled cavity-backed 2×2 slot sub-array fed by inverted microstrip gap waveguide”, *European Conference on Antennas and Propagation (EuCAP)*, Lisbon, 2015.
- [7]. Esperanza Alfonso, **Seyed Ali Razavi**, Liangliang Xiang and Haiguang Chen, “Analysis of Large Planar 60 GHz Array Including Microstrip-Ridge Gap Waveguide Distribution Network Using Modular Approach”, *European Conference on Antennas and Propagation (EuCAP)*, Lisbon, 2015.
- [8]. **Seyed Ali Razavi**, Per-S. Kildal, L. Xiang, E. Alfonso and H. Chen, "Design of 60GHz Planar array antennas using PCB-based microstrip-Ridge gap waveguide and SIW," *European Conference on Antennas and Propagation (EuCAP)*, pp. 1825-1828, Hague, 2014.

- [9]. J. Yang and **Seyed Ali razavi**, "A new E-plane bend for SIW circuits and antennas using gapwave technology," *Proceedings of the International Symposium on Antennas & Propagation (ISAP)*, vol. 1, pp. 593-596, China, 2013.
- [10]. **Seyed Ali. Razavi**, Mohammad H. Neshati, "Low profile h-plane horn antenna based on half mode substrate integrated waveguide technique," *20th Iranian Conference on Electrical Engineering (ICEE)*, pp. 1351-1354, Tehran, 2012.
- [11]. **S. A. Razavi** and M. H. Neshati , "A dielectric loaded HMSIW h-plane horn antenna," *PIERS Proceedings*, pp. 1640-1643, Kuala Lumpur, Malaysia, March 27-30, 2012.
- [12]. **Seyed Ali razavi** and Mohammad H Neshati, "Design Investigation of a Leaky Wave Antenna Using HMSIW Technique," *6th International Symposium on Telecommunications (IST)*, pp. 29-32, Tehran, 2012.
- [13]. **Seyed Ali. Razavi**, Mohammad H. Neshati, "Low profile circularly polarized cavity backed antenna using HMSIW technique," *20th Iranian Conference on Electrical Engineering (ICEE)*, pp. 1355-1358, Tehran, 2012.

### Journal papers

- [1]. **Seyed Ali. Razavi**, Mohammad H. Neshati, "A low profile, broadband linearly and circularly polarized cavity backed antenna Using halved-dual mode SIW cavity," *Applied Computational Electromagnetics Society (ACES) Journal*. vol. 31, no. 8, pp. 953-959, 2016.
- [2]. **Seyed Ali Razavi**, Per-S. Kildal, L. Xiang, E. Alfonso and H. Chen, "2x2-slot element for 60GHz planar array antenna realized on two doubled-sided PCBs using SIW cavity and EBG-type soft surface fed by microstrip-ridge gap waveguide" *IEEE Trans. Antennas and Propagat.* vol. 62, no. 9, pp. 4564-4573. Sep 2014.
- [3]. **Seyed Ali. Razavi**, Mohammad H. Neshati, "Design and analysis of modified HMSIW leaky wave antenna," *Int. Journal of Information and communication Technology Research IJICRT.*, vol. 6, no. 3, pp. 1-6, summer 2014.
- [4]. **Seyed Ali. Razavi**, Mohammad H. Neshati, "Development of slot array antenna using a multiresonant SIW cavity," *Microwave ant opt Tech Letters.*, vol. 55, no. 11, pp. 2763-2767. November 2013.
- [5]. **Seyed Ali. Razavi**, Mohammad H. Neshati, "Development of a low profile circularly polarized cavity backed antenna using HMSIW technique," *IEEE Trans. Antennas and Propagat.*, vol. 61, no. 3, pp. 1041-1047. March 2013.
- [6]. **Seyed Ali. Razavi**, Mohammad H. Neshati, "Development of a linearly polarized cavity backed antenna using HMSIW technique," *IEEE Antennas and Wireless Propagation Letters.*, vol. 11, pp. 1307-1310, 2012.

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### Review experiences:

- IEEE Transactions on antennas and propagations (TAP)
  - IET Microwaves, Antennas & propagation
  - IET Electronic Letters
  - IEEE Antennas and Wireless Propagation Letters (AWPL)
  - WILEY International Journal of RF and Microwave Computer-Aided Engineering
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### Workshops:

- Design of  $2 \times 2$  slot element backed by SIW cavity for microstrip ridge gap waveguide, gap wave workshop at Chalmers University of Technology, Sweden, 21-22 November, 2013.
  - Different designs for  $2 \times 2$  slot subarray in 60GHz planar array, gap wave workshop at Chalmers University of Technology, Sweden, 13-14 November, 2014.
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## **Skills**

HFSS, FEKO, CST and ADS softwares