

**Dr. Abdelhady Mohamed**

Professor  
Electrical Engineering Department  
Faculty of Engineering  
Benha University  
Benha 13512, Egypt

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**EDUCATION****Visiting Professor****2024-2025**

Purple Mountain Labs, State key Laboratory of Millimeter-wave, Southeast Univ., China

**Professor Promotion****Oct 2023**

Electrical and Computer Engineering, Benha University, Egypt

**Associate Professor Promotion****July 2018**

Electrical and Computer Engineering, Benha University, Egypt

**Post-Doctoral Fellowship****2013- 2015**

Electrical and Computer Engineering, Concordia University, Montreal, QC, Canada

**Doctor of Philosophy****2007-2013**

Electrical and Computer Engineering, Menofiya University, Egypt

Thesis Title: Dielectric Resonator Reflectarray

**PhD Scholarship****2010-2012**

State Key Laboratory of Millimeter wave, Southeast University, Nanjing, China

**Masters of Applied Science****2002-2005**

Electronics and Communications Engineering, Benha University, Egypt

Thesis Title: Active Integrated Antennas

**Bachelor of Science** (*Excellent with honors*)**1995-2000**

Electronics and Communications Engineering, Benha University, Benha, Egypt

Project Title: Microstrip Antennas

**WORK EXPERIENCE****Professor****Oct 2023 – Present**

Electrical Engineering Department

Faculty of Engineering, Benha University, Benha, Egypt

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**Associate Professor****July 2018 – Oct 2023**

Electrical Engineering Department  
Faculty of Engineering, Benha University, Benha, Egypt

**Assistant Professor****June 2013 – July 2018**

Electrical Engineering Department  
Faculty of Engineering, Benha University, Benha, Egypt

**Post-Doctoral Fellow****Oct. 2013 – Jul. 2015**

Department of Electrical and Computer Engineering  
Concordia University, Montreal, QC, Canada

- Conducted research on new investigation about linearly and circularly polarized reflectarray and folded reflectarray for millimeter wave's application (30 GHz band) based on the low profile technology.

**Assistant Professor****July. 2013 – Jul. 2018**

Electrical Engineering Department  
Faculty of Engineering, Benha University, Benha, Egypt

**Lecturer** (part-time)**Sep 2013 - May 2014**

- Military Technical College, Egypt

**Research & Teaching Assistant****Sep 2001- Apr 2013**

Electrical Engineering Department  
Faculty of Engineering, Benha University, Benha, Egypt

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## **Publications**

### **Journal Papers:**

- [39] Guan-Long Huang, Chu-Wen Bin, Hao-Lei Liu, Zi-Yu Pang, Rui-Sen Chen, Qiang Shao, Xian-Hui He, Mustafa K. Taher Al-Nuaimi, Jingtao Zeng, Hua Yang, Wei Lin, **Abdelhady Mahmoud**, Chow-Yen-Desmond Sim, Yiannis Vardaxoglou, "Multi-Resonant Cavity-Backed Slot Antennas with Enhanced Bandwidth and High Isolation", Accepted, in printing, *IEEE Antennas and Wireless Propagation Letters*, 2026.
- [38] Meshari D. Alanazi, **Abdelhady M.A.**, Ahmed A. Ibrahim et al. "Circularly Polarized Millimeter-Wave Hemisphere DRA Employing FSS Polarizer and Dielectric Superstrate for 5G Applications", Accepted, in printing, *Sci Rep* 16, 2026.
- [37] Zakaria, E., **Abdelhady, A.M.**, Hassan, A.Y. et al. Bandwidth-efficient power-efficient frequency diversity MIMO-OFDM system. *Discov Appl Sci* 7, 1111 (2025)
- [36] **Abdelhady, A.M.**, Mohamed, H.A., Ali, W.A. et al. High gain quad-port circularly polarized aperture-coupled MIMO antenna. *Sci Rep* 15, 32606 (2025). <https://doi.org/10.1038/s41598-025-19993-6>
- [35] Guan-Long Huang, Jin-Peng He, Peng-Fei Qin, Zi-Yu Pang, Xian-Hui He, **Abdelhady Mahmoud**, Jingtao Zeng, Hua Yang, et al., "Antenna Design Using an Enhanced Multi-Objective Artificial Hummingbird Algorithm Based on Tolerance Mechanism," *Microwave and Optical Technology Letters* 67 (2025): 1-6
- [34] Nawar, R.I., **Abdelhady, A.M.** & Hassan, A.Y. High Performance Circularly Polarized Quad-Elements for 5G Wireless Communications. *Arab J Sci Eng* 50, 10837–10854 (2025). <https://doi.org/10.1007/s13369-024-09844-3>
- [33] Meshari D. Alanazi, Wael A.E. Ali, **M.A. Abdelhady**, Ahmed A. Ibrahim, "Millimeter-wave monopole antenna with circular polarization utilizing FSS polarizer for 5G communications, *Engineering Science and Technology, an International Journal*, Volume 61, 2025, 101931. <https://doi.org/10.1016/j.jestch.2024.101931>.
- [32] Mohamed S. Sayed, Hatem M. Zakaria, **Abdelhady M. Abdelhady**, Abdelhalem Zekry, Interference Mitigation in Mixed-Numerology System Using Hybrid Waveforms, *Ain Shams Engineering Journal*, Volume 15, Issue 3, 2024, 102581.
- [31] G. -L. Huang, Z. -Y. Pang, M. K. T. Al-Nuaimi, A. A. Kishk and **A. Mahmoud**, "A Broadband and High-Aperture-Efficiency Multilayer Transmitarray Based on Aperture-Coupled Slot Unit Cells," in *IEEE Transactions on Antennas and Propagation*, vol. 71, no. 12, pp. 9633-9642.
- [30] Basma M Yousef, Allam M Ameen, Wael A E Ali, Ahmed A Ibrahim, **Abdelhady M A** and Ashraf E Ahmed "Compact size and wideband 4 × 4 MIMO antenna for 5G NR networks" *Physica Scripta*, Volume 99, Number 12. DOI 10.1088/1402-4896/ad8aa2.
- [29] Rehab Ibrahim Nawar, Ashraf Yahia Hassan, **Abdelhady Mahmoud Abdelhady** "High gain wideband circularly polarized antenna with modified ground plane" *Indonesian Journal of Electrical Engineering and Computer Science*, Vol.32,
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- No.1, October 2023, pp. 284~291.
- [28] Kiyani, A.; Asadnia, M.; Abbas, S.M.; Esselle, K.P.; **Mahmoud, A.** Wide Dual-Band Circularly Polarized Dielectric Resonator: Innovative Integration of a Single Hybrid Feed and Thin Grounded Metasurface. *Micromachines* 2023, 14, 1432.
- [27] Samar A. Refaat, Hesham A. Mohamed, **Abdelhady M. Abdelhady**, Ashraf S. Mohra "A 28/38 GHz tuned reconfigurable antenna for 5G mobile communications" *Indonesian Journal of Electrical Engineering and Computer Science*, Vol. 31, No. 1, pp: 248-258
- [26] M. K. T. Al-Nuaimi, S. -L. Zhu, W. G. Whittow, R. -S. Chen, G. -L. Huang and **A. Mahmoud**, "Design of Alvarez Beam Scanning Reflectarray With Inversely Proportional Focal Length," in *IEEE Antennas and Wireless Propagation Letters*, vol. 22, no. 6, pp. 1416-1420, June 2023
- [25] Xu, Y.; Mu, L.; Xu, Y.; **Mahmoud, A.**; Wang, Y.; Ramahi, O.M. Wearable Directional Button Antenna for On-Body Wireless Power Transfer. *Electronics* 2023, 12, 1758.
- [24] Khan, H.A.; Rafique, U.; Abbas, S.M.; Ahmed, F.; Huang, Y.; Uqaili, J.A.; **Mahmoud, A.** Polarization-Independent Ultra Wideband RCS Reduction Conformal Coding Metasurface Based on Integrated Polarization Conversion-Diffusion-Absorption Mechanism. *Photonics* 2023, 10, 281.
- [23] Yasin, A.; Gogosh, N.; Sohail, S.I.; Abbas, S.M.; Shafique, M.F.; **Mahmoud, A.** Relative Permittivity Measurement of Microliter Volume Liquid Samples through Microwave Filters. *Sensors* 2023, 23, 2884.
- [22] A. Kiyani, Nasimuddin N., Raheel M H., Affan A., Syed M., Karu P Esselle, and **A. Mahmoud**, "A Single-Feed Wideband Circularly Polarized Dielectric Resonator Antenna Using Hybrid Technique With a Thin Metasurface," in *IEEE Access*, vol. 10, pp. 90244-90253, 2022.
- [21] Ahmed A., Hijab Z., Syed M., Mohamed I. A., Gaurav V., Subhas M. and **A. Mahmoud**, "Compact Four-Port Circularly Polarized MIMO X-Band DRA" *Sensors, MDPI*, June 2022.
- [20] S Shrestha, H Zahra, A Kiyani, M Asadnia, SM Abbas, **A. Mahmoud**, "Miniaturized Wideband Antenna Prototype Operating over the Ku-Band", *Micromachines, MDPI*, 13 (3), 471, 2022
- [19] G Varshney, RS Yaduvanshi, AA Ibrahim, **A. Mahmoud**, "Technique of Controlling the Bandwidth of MIMO Rectangular Dielectric Resonator Antenna" *MAPAN*, 2022, 1-9.
- [18] Attia, H, Kishk, AA, Abdalla, MA, Gaya, S, Hamza, A, **Mahmoud, A.** , "Ridge gap waveguide antenna array with improved mutual isolation for millimeter wave applications. " *Int J RF Microw Comput Aided Eng.* 2021; 31( 11):e22831.
- [17] **A. Mahmoud**, Mohamed I. Ahmed, G. Varshney, A. A. Ibrahim, "An array of staircase-shaped circularly polarized DRA," *International Journal of RF and Microwave Computer-Aided Engineering*, vol.31, issue 6, 2021
- [16] A. A. Omar, **A. Mahmoud**, J. Choi and W. Hong, "Wideband Transmissive Polarization Rotator With In-Band Notches Enabling Multiband Operation," in *IEEE Access*, vol. 9, pp. 44751-44756, 2021.
- [15] Mourad S. Ibrahim, Hussein Attia, Qiang Cheng, **A. Mahmoud** "Wideband circularly
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- polarized aperture coupled DRA array with sequential-phase feed at X-band "Alexandria Engineering Journal, Volume 59, Issue 6, 2020, Pages 4901-4908.
- [14] A. A. Omar, W. Hong, A. Al-Awamry and **A. -E. Mahmoud**, "A Single-Layer Vialess Wideband Reflective Polarization Rotator Utilizing Perforated Holes," in *IEEE Antennas and Wireless Propagation Letters*, vol. 19, no. 12, pp. 2053-2056, Dec. 2020.
- [13] M. K. T. Al-Nuaimi, **A. Mahmoud**, W. Hong and Y. He, "Design of Single-Layer Circularly Polarized Reflectarray With Efficient Beam Scanning," in *IEEE Antennas and Wireless Propagation Letters*, vol. 19, no. 6, pp. 1002-1006, June 2020.
- [12] J. Yang, Q. Cheng, M. K. T. Al-Nuaimi, A. Kishk and **A. Mahmoud**, "Broadband Folded Reflectarray Fed by a Dielectric Resonator Antenna," in *IEEE Antennas and Wireless Propagation Letters*, vol. 19, no. 1, pp. 178-182, Jan. 2020.
- [11] Jin Y., Cheng Z., Huifeng M., Wei Y., Liuxi Y., Juncheng K., Mingzheng C., **Abdelhady M.**, Qiang C., and Tie jun C., "Tailoring polarization states of multiple beams that carry different topological charges of orbital angular momentums," *Opt. Express* 26, pp. 31664-31674, (2018)
- [10] B. Mohammadi, **Abdelhady M.** et al., "Enhanced Reflectarray Antenna Using Elements With Reduced Reflection Phase Sensitivity," in *IEEE Antennas and Wireless Propagation Letters*, vol. 17, no. 7, pp 1334-1338, July 2018.
- [9] M. A. Moharram; **A. Mahmoud**; A. A. Kishk, "A Simple Coaxial to Circular Waveguide OMT for Low-Power Dual-Polarized Antenna Applications," in *IEEE Trans. on Microwave Theory and Techniques*, vol.66, Issue 1, 2017, pp.109-115
- [8] **A. Mahmoud**, A. A. Kishk, Z. Hao and W. Hong, "Ka-band circularly polarized reflectarray: Using a double-layers cross slot," in *IEEE Antennas and Propagation Magazine*, vol. 58, no. 4, pp. 60-68, Aug. 2016.
- [7] **A.-H. Mahmoud** and A. A. Kishk, "Ka-band low profile circularly polarized reflectarray," *Progress in Electromagnetics Research C*, Vol. 63, 43-51, 2016.
- [6] **Mahmoud, A.-E.**; Wei Hong; Yan Zhang; Kishk, A. "W-Band Multilayer Perforated Dielectric Substrate Lens" *IEEE Antennas and Wireless Propagation Letters*, vol.13, pp.734-737, 2014.
- [5] **M. Abd-Elhady**, W. Hong, Y. Zhang "A Ka-Band Reflectarray Implemented With a Single-Layer Perforated Dielectric Substrate" *IEEE Antennas and Wireless Propagation Letters*, vol.11, pp.600-603, 2012.
- [4] **A.M. Abd-Elhady**, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Varying Slot Lengths Strip Loading Squared Dielectric Resonator Reflectarray," *International Journal of Electromagnetics and Applications*, Vol.2, No.3, pp. 51-55, 2012.
- [3] **A.M. Abd-Elhady**, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, " Dual Sized Varying Slot Lengths Loading Dielectric Resonator Reflectarray," *International Journal of Electromagnetics and Applications*, Vol.2, No.3, pp.46-50, 2012.
- [2] **A.M. Abd-Elhady**, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Linearly Polarized Fed Circularly Polarized DRA Reflectarray," *International Journal of Electromagnetics and Applications*, Vol.2, No.2, pp. 11-15, 2012.
- [1] S. H. Zainud-Deen, S. M. Gaber, **A. M. Abd-Elhady**, K. H. Awadalla, A. A. Kishk " Perforated Dielectric Resonator Antenna Reflectarray " *ACES journal*, Vol. 26, No. 10, pp. 848-855, 2011.
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**Conference Proceedings:**

- [23] K. Ashfaq, R. S. Anwar, A. M., A. S. I. Amar, A. K. Mahmoud and M. M. Tahseen, "High-Efficiency Polarization Conversion Metasurface for X-Band Applications," 2025 International Telecommunications Conference (ITC-Egypt), Cairo, Egypt, 2025, pp. 906-908.
- [22] Arslan Kiyani, Syed Muzahir Abbas, Ladislau Matekovits, **Abdelhady Mahmoud**, and Karu Esselle "Enhancing Radiation Characteristics of Antenna Arrays over a Sparse Area" 2024 IEEE International Symposium on Antennas and Propagation and INC/USNC-URSI Radio Science Meeting (AP-S/INC-USNC-URSI), July 2024.
- [21] G. -L. Huang, **M. Abdelhady**, Z. -Y. Pang and J. -J. Liang, "Broadband Flat-Gain Transmitarray," 2021 International Applied Computational Electromagnetics Society (ACES-China) Symposium, Chengdu, China, 2021, pp. 1-2.
- [20] M. S. Ibrahim, **A. Mahmoud**, A. Awamry, Z. H. Jiang, W. Hong and M. Al-Nuaimi, "Design and Fabrication of Engineered Reflector for Wideband Linear-to-Circular Polarization Converter," 2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, 2019, pp. 1697-1698.
- [19] M. S. Ibrahim, **A. Mahmoud**, A. Awamry, Z. H. Jiang, W. Hong and M. Al-Nuaimi, "Wideband Anisotropic Unit Cell Design for Perfect Cross-Polarization Conversion," 2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, 2019, pp. 1831-1832.
- [18] S. Gaya, H. Attia, S. I. Sheikh, **A. Mahmoud** and M. S. Sharawi, "A Yagi-Uda Pattern Reconfigurable Antenna for WiMAX Application," 2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, 2019, pp. 679-680
- [17] J. Nourinia, C. Ghobadi, B. Mohammadi, **A. Mahmoud** and I. Aryanian, "RCS Reduction of Reflectarray Antenna Backed with Sub-Wavelength Frequency Selective Surface," 2019 27th Iranian Conference on Electrical Engineering (ICEE), 2019, pp. 1627-1631
- [16] Mustafa K.T. A., Wei Hong, **Abdelhady M.**, "Design of High Gain Reflectarray Antenna for 77GHz Applications", APCAP 2017, China.
- [15] Mustafa K.T. A., Wei Hong, **Abdelhady M.**, "Design of Cross Polarization Conversion Metasurface Using Dumbbell-Like Unit Cell", APCAP 2017, China.
- [14] Maher K., Abdel Fattah F., Ahmed A., **Abdelhady M.**, Thomas K., "Printable, High Coding Capacity Chipless RFID Tags for Low Cost Item Tagging" ICNSC 2017.
- [13] Mustafa K.T. A., Wei Hong, Gaoxi Qi, **Abdelhady M.**, "Design of Reflective Surface for Cross Polarization Conversion and RCS Reduction" 2017 International Applied Computational Electromagnetics Society Symposium (ACES), Suzhou, 2017, pp. 1-2.
- [12] **Abdelhady M.**; Hussein A. "Wide-band Circularly Polarized Dielectric Resonator Antenna Array" 2017 IEEE International Symposium on Antennas
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- and Propagation & USNC/URSI National Radio Science Meeting, San Diego, CA, 2017, pp. 1521-1522.*
- [11] **Abdelhady M.**; Noha A., Shaymaa G., "Circularly Polarized Chamfer Shaped DRA Array" 43th National Radio Science Conference (NRSC 2017), Egypt.
- [10] **Mohamed, A-E.**; Kishk, A. "Folded reflectarray with dually polarized cells" *Antennas and Propagation (EuCAP), 2015 9th European Conference on Antennas and Propagation. pp.1- 4, 2015.*
- [9] **Mohamed, A.**; Kishk, A. "Ka-band dual mode circularly polarized reflectarray" 2014 16<sup>th</sup> International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Victoria, Canada.
- [8] **A.M. Abd-Elhady**, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Electronically Tunable Dielectric Resonator Reflectarray" 2014 16th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Victoria, Canada.
- [7] **Abd-Elhady. M.A**, Saber H. Zainud-Deen, A.A. Mitkees, and A.A. Kishk "Dual Polarized Dual Feed Aperture-Coupled DRA Reflectarray" 29th National Radio Science Conference (NRSC 2012), Faculty of Engineering, Cairo Univ., Egypt, pp. 97-102, April 2012.
- [6] Y. Zhang, **M. Abd-Elhady**, W. Hong and W. Li, "Research progress on millimeter wave transmitarray in SKLMMW," 2012 4th International High Speed Intelligent Communication Forum, Nanjing, China, 2012, pp. 1-2
- [5] **A.M. Abd-Elhady**, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "X-Band Linear Polarized Aperture-Coupled DRA Reflectarray," 2010 International Conference on Microwave and Millimeter Wave Technology, Chengdu, China, pp. 1042 – 1044, 2010.
- [4] **A.M. Abd-Elhady**, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Slot-Loading Rectangular Dielectric Resonator Elements Reflectarray ",1st Middle East Conference on Antennas and Propagation, (MECAP), Cairo, Egypt, pp. 1-3, October 2010.
- [3] S.H. Zainud-Deen, **A.M. Abd-Elhady**, A.A. Mitkees, and Ahmed A. Kishk, "Dielectric Resonator Reflectarray with Two DRA Sizes and Varying Slot Loading," 2010 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, Toronto, Canada, pp.1-4, July 2010.
- [2] S.H. Zainud-Deen, **A.M. Abd-Elhady**, A.A. Mitkees, and Ahmed A. Kishk, "Design of Reflectarray Employing Rectangular Dielectric Resonator Elements of Variable Sizes," *The 26<sup>th</sup> Annual Review of Progress in Applied Computational Electromagnetics, Tampere, Finland, pp. 813-816, April 26-29, 2010.*
- [1] S.H. Zainud-Deen, **Abd-Elhady**, A.A. Mitkees and A.A. Kishk, "Design of Dielectric Resonator Reflectarray Using Full-Wave Analysis," 26th National Radio Science Conference (NRSC 2009), Faculty of Engineering, Future Univ., Egypt, pp. 1-9, March 2009.

### Conference Presentation:

- [1] *S.H. Zainud-Deen, **Abd-Elhady**, A.A. Mitkees and A.A. Kishk, "Design of Dielectric Resonator Reflectarray Using Full-Wave Analysis," 26th National Radio Science Conference (NRSC 2009), Faculty of Engineering, Future Univ. , Egypt, pp. 1-9, March 2009.*
- [2] ***A.M. Abd-Elhady**, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Slot-Loading Rectangular Dielectric Resonator Elements Reflectarray ", 1st Middle East Conference on Antennas and Propagation, (MECAP), Cairo, Egypt, pp. 1-3, October 2010.*
- [3] ***A.M. Abd-Elhady**, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "X-Band Linear Polarized Aperture-Coupled DRA Reflectarray," 2010 International Conference on Microwave and Millimeter Wave Technology, Chengdu, China, pp. 1042 – 1044, 2010.*
- [4] ***A.M. Abd-Elhady**, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Electronically Tunable Dielectric Resonator Reflectarray" 2014 16<sup>th</sup> International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Victoria, Canada.*
- [5] ***Mohamed, A.**; Kishk, A. "Ka-band dual mode circularly polarized reflectarray" 2014 16<sup>th</sup> International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Victoria, Canada.*

## **Honors & Awards**

- 1) Education Excellence award Jun 2025- Benha University
  - 2) Education Excellence award Jan 2025- Benha University
  - 3) Education Excellence award Jun 2024- Benha University
  - 4) Education Excellence award Jan 2024- Benha University
  - 5) Education Excellence award Jun 2023- Benha University
  - 6) Education Excellence award Jan 2023- Benha University
  - 7) Education Excellence award Jun 2022- Benha University
  - 8) Education Excellence award Jan 2022- Benha University
  - 9) Education Excellence award Jan 2020- Benha University
  - 10) Education Excellence award Jun 2019- Benha University
  - 11) Education Excellence award Jan 2019- Benha University
  - 12) Education Excellence award Jan 2018- Benha University
  - 13) Education Excellence award Jun 2017- Benha University
  - 14) Education Excellence award Jun 2016- Benha University
  - 15) Education Excellence award Jan 2016- Benha University
  - 16) Post-Doctoral Fellowship, Concordia University, Quebec 2013-2015
  - 17) PhD Scholarship, Southeast University, Nanjing, China 2010-2012
  - 18) Second rank among B.Sc. students of Faculty of Engineering, Benha University, Egypt, 2000.
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### **Scientific and Professional Activities**

- Reviewer, IEEE Antennas and Wireless Propagation Letters.
- Reviewer, Journal International Journal of Electronics and Communications, Elsevier.
- Reviewer, Progress In Electromagnetics Research Symposium.

### **Experiences:**

- Antennas R/D – VNA Measurements- Near-field Measurements – Far-field Measurements.
  - NSI planar pattern scanner 8 GHz to 50 GHz.
  - Terahertz spectroscopy (330 GHz).
  - Agilent PNA E8361C up to 67 GHz.
  - Antennas Simulation packages: CST Microwave Studio- HFSS
  - Educational Undergraduate projects (9 years).
  - High gain Broad-band planar arrays.
  - Low Profile Reflectarray (CP and LP).
  - Folded Reflectarray.
  - Scanning Reflectarray.
  - Broad-band CP arrays (DRA and low-profile structures).
  - Wide-band Flat Gain Transmitarray.
  - Ridge Gap Waveguides.
  - Printed Ridge Gap Structures.
  - Slim THz Lens.
  - Artificial Flat Lens.
  - Periodic Structures.
  - Passive RFID Tags.
  - Dual Polarized OMT Horns.
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- Flat Panel Antennas.
- Base station antennas design (printed circuit and whole metallic (sub 6GHz band, 698-960-1710-2690MHz) (+45/-45 2G, 3G and LTE base station.)

### **Research Interest:**

Artificial Lens-Transmitarray- Reflectarray- Folded reflectarray- Broad-band High Gain Antennas- Compact Broad-band compact CP Antennas- THz Lens- UWB Antennas- Mutual coupling reduction- Printed Ridge Gap Antennas- Passive RFID- Low Profile Antennas- 3D Printing Antennas, MIMO antennas, Textile Antenna, Dual Polarized OMT Horns, Polarizer and CP DRA.

### **Personal Information**

- **Nationality: Egyptian**
  - Marital status: Married with children
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