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EDUCATION

2015-2021	Erciyes University, Electrical and Electronics Engineering, PhD
2001-2005	Mersin University, Electrical and Electronics Engineering, MSc
1996-2001	Kocaeli University, Electronics and Communication Engineering, BSc

ACADEMIC POSITIONS

08/2024- present	Assist. Prof. Dr., Department of Electrical and Electronics Engineering, Atılım University, Turkey
02/2023-07/2024	Assist. Prof. Dr., Department of Electrical and Electronics Engineering, Bandırma Onyedli Eylül University, Turkey
07/2022-02/2023	Assist. Prof. Dr., Program of Electronics Technology, Ostim Technical University, Turkey
11/2008-07/2022	Instructor, Program of Electronics and Communication Technology, Kırşehir Ahi Evran University, Turkey
09/2006-02/2007	Instructor, Department of Electronics Education, Mersin University, Turkey
11/2001-03/2005	Research Assistant, Department of Electrical and Electronics Engineering, Mersin University, Turkey

RESEARCH INTERESTS

1	Microstrip Patch Antenna Design
2	THz and mm-wave antennas
3	RF and Microwave Theory
4	Wearable Antennas
5	Electromagnetics

PUBLICATIONS (SCI, SCI-E)

3	Hakanoglu, B. G., Kilic, V. T., Altindis, F., Turkmen, M. (2023). Crown Shaped Edge Multiband Antenna Design for 5G and X-Band Applications. <i>Wireless Networks</i> , vol. 29, pp. 3255-3270.
2	Turkmen, M., Gunes, Y.E., Hakanoglu, B.G. et al. (2022). Dual-Band Patch Antenna with Simple Rectangular Shaped Slots for Local Area Networks. <i>Wireless Personal Communication</i> , vol. 123, no 2, pp. 1047-1058.
1	Hakanoğlu, B. G., Koc, B., Sen, O., Yalduz, H., Turkmen, M. (2021). Stub Loaded Patch Antenna and a Novel Method for Miniaturization at Sub 6 GHz 5G and Wi-Fi Frequencies. <i>Advances in Electrical and Computer Engineering (AECE)</i> , vol. 21, no. 2, pp. 23-32.

PUBLICATIONS (TR INDEX)

5	Hakanoğlu, B. G. (2024). 6g Ağlarında Dikdörtgen Yarıkli Kare Yama Antenin Farklı Dielektrik Malzemeler İçin Işıma Karakteristikleri Analizi. <i>Mühendislik Bilimleri ve Araştırmaları Dergisi</i> , vol. 6, no. 1, pp. 105-112.
4	Hakanoğlu, B. G. (2024). The Effect of Different Dielectric Materials on Radiation Features of Slotted Patch Antennas for 6G Communication Systems. <i>Uludağ Üniversitesi Mühendislik Fakültesi Dergisi</i> , vol. 29, no. 1, pp. 263-278.
3	Sarıkaya, K., Hakanoğlu, B. G., Keser, S. (2023). X ve Ku Bandı İçin Dikdörtgen Ve Simetrik L-Şekilli Yarıklara Sahip Çoklu Bant Yama Antenlerde Malzeme Etkileri. <i>Düzce Üniversitesi Bilim ve Teknoloji Dergisi</i> , vol. 11, no. 2, pp. 1094-1104.
2	Hakanoğlu, B. G., Hayber, S. E., Türkmen, M. (2021). Design Equation for Operating Frequency of Patch Antenna with a Rectangular Tuning Stub at Early Phase 5G Bands. <i>Academic Platform-Journal of Engineering and Science</i> , vol. 9, no. 3, pp. 403-410.
1	Hakanoğlu, B. G., Yalduz, H., Koc, B., Hayber, S. E., Türkmen, M. (2020). Comparative Analysis of the Effects of the Substrate Material and Deltoid Shaped Slots on Patch Antennas for 5G Networks at 37 GHz and 39 GHz. <i>Avrupa Bilim ve Teknoloji Dergisi</i> , Ejosat Special Issue 2020 (ARACONF), pp. 405-411.

PROJECTS

5	Development of a New Patch Antenna Model for Fifth Generation Wireless Communication, Atılım Üniversitesi Öğrencileri Araştırma Kariyeri (ATAK), Advisor, (30.11.2024-...) Ongoing
4	Data-Link Communication in Unmanned Aerial Vehicles, TÜBİTAK 2209-B, Advisor, (08.04.2025-...) Ongoing
3	A New Patch Antenna Design at 5G Frequencies for Smart Grid Data Communication Networks, TÜBİTAK 2209-A, Advisor, (08.04.2025-...) Ongoing
2	A New Patch Antenna Design for Device-to-Device Communication and Wearable Technologies in 5G Networks, TÜBİTAK 2209-B, Advisor, (14.04.2024-03.04.2025) Completed
1	Investigation of New Patch Antenna Designs with Different Dielectric Materials for Smart Grid Network Data Communication, Bandırma Onyedi Eylül University Scientific Research Project, Project No: BAP-23-1004-009, Researcher, (25.12.2023-25.12.2024) Completed.

CONFERENCE PRESENTATIONS

20	Gaye Nur Akküp, Barış Gürcan Hakanoğlu, "X-Band High Gain Patch Array Antenna Design For Radar Applications," Atılım Üniversitesi Mühendislik Bilimleri ve Araştırmaları Öğrenci Kongresi (MÜBAK), 29-30 Mayıs 2025, Ankara
19	Barış Mert Akpınar, Barış Gürcan Hakanoğlu, "Development Of A High-Efficiency Antenna Design For Ultra Wide Band 5G Systems Using Defected Ground Structures," Atılım Üniversitesi Mühendislik Bilimleri ve Araştırmaları Öğrenci Kongresi (MÜBAK), 29-30 Mayıs 2025, Ankara
18	Yaren Korkmaz, Barış Gürcan Hakanoğlu, "Performance Comparison Of Combo And Gps Antennas Used In GNSS-Based Vehicle Tracking" Atılım Üniversitesi Mühendislik Bilimleri ve Araştırmaları Öğrenci Kongresi (MÜBAK), 29-30 Mayıs 2025, Ankara
17	Göksenin Serttaş, Barış Gürcan Hakanoğlu, "How Can Deep Learning Models Be Optimized For Real-Time RF Signal Classification On Resource-Constrained Devices?" Atılım Üniversitesi Mühendislik Bilimleri ve Araştırmaları Öğrenci Kongresi (MÜBAK), 29-30 Mayıs 2025, Ankara
16	Büşra Altın, Batuhan Enes Özmen, Kamile Ezgi Çıdır, Onurcan Işık, Barış Gürcan Hakanoğlu, "A New Patch Antenna Design At 5G Frequencies For Smart Grid Data Communication Networks," Atılım Üniversitesi Mühendislik Bilimleri ve Araştırmaları Öğrenci Kongresi (MÜBAK), 29-30 Mayıs 2025, Ankara
15	Alptekin Paksoy, Aybuke İrem Şimşek, Talip Eren Özdemir, Utkan Yardımcı, Ezen Arslan Koç, Barış Gürcan Hakanoğlu, "Integration Of Data-Link Communication Between Unmanned Aerial Vehicles," Atılım Üniversitesi Mühendislik Bilimleri ve Araştırmaları Öğrenci Kongresi (MÜBAK), 29-30 Mayıs 2025, Ankara
14	Barış Gürcan Hakanoğlu, Emine Ağaya, Gönül Gülmez, Serkan Yalınsu, "5G Ağlarında Yama Antenler İçin Dikdörtgen Yarıkların Laminat ve Giyilebilir Malzemelerde Karşılaştırmalı Analizi", Elektrik-Elektronik ve Biyomedikal Mühendisliği Konferansı (ELECO) 2024, 28-30 Kasım 2024, Bursa, Türkiye.
13	Baris G. Hakanoglu, Mustafa Turkmen, "Investigation of the Effects of the Slot Parameters on a Patch Antenna at 28 GHz Related to the Operating Wavelength ", <i>The 15th Global Symposium on Millimeter-Waves&Terahertz (GSMM2024)</i> , 20–22 May 2024, Hong Kong, China.
12	Barış Gürcan Hakanoğlu, "Comparative Analysis Of Rectangular Slots And Different Substrate Materials For A Square Patch Antenna For 6G Communication Systems", <i>VII. International Conference on Engineering Sciences</i> , 9-10 Februray 2024, Ankara, Türkiye.

11	Barış Gürçan Hakanoğlu, "Comparative Analysis of the Effects of Rectangular Slots and Defected Ground for Different Materials on Patch Antennas at 6G Frequency Bands", <i>VII. International Marmara Scientific Research and Innovation Congress</i> , 27-28 January 2024, Istanbul, Türkiye.
10	Barış Gürçan Hakanoğlu, "6G Haberleşme Sistemleri İçin Yarıkli Yama Antenlerde Farklı Dielektrik Malzemelerin Yayılma Karakteristiklerine Etkisi", <i>Elektrik-Elektronik ve Biyomedikal Mühendisliği Konferansı (ELECO) 2022</i> , 24-26 Kasım 2022, Bursa, Türkiye.
9	Kübra Sarıkaya, Barış Gürçan Hakanoğlu, "X ve Ku Bantlarında Çalışan Yama Antende Asimetrik Dikdörtgen Yarıkların Etkisi", <i>I. Savunma Sanayi Sempozyumu ve Sergisi</i> , 13-15 Ekim 2022, Kayseri, Türkiye.
8	Mehmet Güçyetmez, Barış Gürçan Hakanoğlu, "A New Antenna Model for Smart Grid Data Communication at 868 MHz ZigBee Band", <i>XIV. International Conference on Engineering&Natural Sciences</i> , 18-19 July 2022, Sivas, Türkiye.
7	Baris G. Hakanoglu, Osman Sen, Burak Koc, Sekip Esat Hayber, Mustafa Turkmen, "Defected Grounded Rectangular Patch Antenna with Rhombic-Shaped Slots for Early Phase 5G Applications ", <i>XXXIII. International Union of Radio Science (URSI) General Assembly&Scientific Symposium (GASS)</i> , 29 August–5 September 2020, Rome, Italy.
6	Baris G. Hakanoglu, Sekip Esat Hayber, Omer Galip Saracoglu, Mustafa Turkmen, "Optimization of Feed Line Parameters of a Square Microstrip Patch Antenna at 39 GHz for 5G Designs", <i>International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)</i> , 19 – 21 October 2018, Ankara, Turkey.
5	Baris G. Hakanoglu, Mustafa Turkmen, "The Effect of Diamond – Shaped Slots in Square Microstrip Patch Antenna At 39 GHz", <i>International Symposium on Graduate Research in Science Focus on Innovation and Entrepreneurship</i> , 4 – 6 October 2018, Istanbul, Turkey.
4	Baris G. Hakanoglu, Mustafa Turkmen, "The Effect of the Slot Edge Dimension on the Operating Frequency of a Square Microstrip Patch Antenna for 5G Communication Networks", <i>IX. URSI – Türkiye Bilimsel Kongresi Ulusal Genel Kurul Toplantısı</i> , 6 – 8 Eylül 2018, Konya, Türkiye.
3	Baris G. Hakanoglu, Mustafa Turkmen, "Comperative Investigation of the Slot Edge Dimensions for a Square Microstrip Patch Antenna at 28 GHz and 39 GHz for 5G Applications", <i>II. Bilimsel ve Mesleki Çalışmalar Sempozyumu</i> , 5 – 8 Temmuz 2018, Nevşehir, Türkiye.
2	Baris G. Hakanoglu, Osman Sen, Mustafa Turkmen, "A Square Microstrip Patch Antenna With Enhanced Return Loss Through Defected Ground Plane For 5G Wireless Networks ", <i>II. International</i>

	<i>Union of Radio Science (URSI) Atlantic Radio Science Meeting (AT-RASC)</i> , 28 Mayıs–01 Haziran 2018, Meloneras, Gran Canaria, İspanya.
1	Baris G. Hakanoglu, Mustafa Turkmen, “ An Inset Fed Square Microstrip Patch Antenna To Improve the Return Loss Characteristics for 5G Applications “, <i>XXXII. International Union of Radio Science (URSI) General Asembly & Scientific Symposium (GASS)</i> , 19 – 26 Ağustos 2017, Montreal, Quebec, Kanada.

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	3
H-index (ISI Web of Science):	1

COURSES GIVEN

1	EE210 Circuit Analysis II 2024-2025 Spring
2	EE106 Introduction to Computational Tools 2024-2025 Spring
3	EE405 Antennas and Propagation 2024-2025 Spring
4	EE494 Engineering Design Project II 2024-2025 Spring
5	EE209 Circuit Analysis I 2024-2025 Fall
6	EE310 RF and Microwave Engineering 2024-2025 Fall
7	EE531 Antennas and Radiowave Propagation 2024-2025 Fall
8	EE493 Engineering Design Project I 2024-2025 Fall