

TAREK ABDOU

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Professional Summary

in Telecommunication and Electronic Engineering, specializing in mm-wave Antenna design, Networks, and wearable antenna technologies. Proven ability to lead technical divisions, develop academic curricula, and contribute to institutional capacity building. Seeking to leverage expertise in research, teaching, and project management to drive innovation and achieve organizational objectives.

Experience

Lecturer, Electrical and Electronics Engineering Department, Higher Institute of Engineering Techniques, Tripoli-Libya

July 2024 – Present

- **Headed** the Communications Division within the Department of Electrical and Electronic Technologies, overseeing strategic initiatives and operational excellence.
- **Directed** the Engineering Administration Department, ensuring efficient management and coordination of departmental activities.
- **Delivered** comprehensive undergraduate lectures in core electrical and electronics engineering subjects, including advanced topics in antennas, electromagnetism, and communication systems.

- **Actively participated** in departmental meetings, curriculum development, and quality assurance processes, contributing to academic excellence and program enhancement.

National Short-Term Expert, Dorsch Impact GmbH, Germany

October 2025 – February 2026

- **Provided** expert consultancy services for 25 days, focusing on the design and development of academic curricula and program requirements.
- **Ensured** alignment of proposed programs with approved Terms of Reference (ToRs) and international academic standards.
- **Contributed** significantly to institutional capacity development through robust quality assurance frameworks.

Sheffield Teaching Assistant, University of Sheffield

2020 – 2023

- **Supported** various modules through roles as Exam Invigilator (Assistant) for training sessions and spring semester exams.
- **Assisted** in marking for EEE163 during the 2021-22 Xmas Break.
- **Served** as a Graduate Teaching Assistant (GTA) in MEE, facilitating ACSE Labs in the Electronics & Control Lab (2021-22 Sem 1) and EEE labs in E&C Lab (2021-22 Sem 2).
- **Contributed** to student induction and provided support for students in MEE, including System Design Analysis (2019/20 Sem 2 and 2021-22 Sem 2).

Network Engineer, Libya Telecom & Technology (LTT)

2016 – 2019

- **Specialized** in DSL services and customer installations, providing comprehensive technical support for DSL infrastructure.
- **Managed** troubleshooting, configuration, and service activation to ensure seamless network operations.

- **Collaborated** with cross-functional teams to uphold high service quality and customer satisfaction.
- **Installed and maintained** network equipment at customer premises, adhering to company standards and protocols.

Network Engineer, Libya Telecom & Technology (LTT)

2009 – 2012

- **Functioned** as a network engineer within the Services & Installations Unit of the DSL Technical Department.
- **Contributed** to the operational efficiency and service delivery of The Libyan Telecom & Technology (LTT) Company in Tripoli, Libya.

Tutor, Electrical and Electronics Engineering Department, Higher Institute of Engineering Techniques, Tripoli-Libya

2003 – 2009

- **Supported** undergraduate courses in electronics, circuit theory, and practical system design, enhancing student comprehension.
- **Supervised** laboratory sessions, providing hands-on instruction in measurement tools, components, and simulation software.
- **Led** the Electronics Laboratory, managing equipment, preparing experiments, and coordinating lab schedules.
- **Contributed** to academic assessments, project evaluations, and mentored students in their final-year projects.

Electrical Engineer, Interbeton BV, A Dutch Company, Tripoli-Libya

2002 – 2003

- **Oversaw** site electrical installations for industrial infrastructure projects, ensuring compliance with safety and quality standards.
- **Supervised** wiring, power distribution systems, grounding, and lighting installations, adhering to international standards.

- **Coordinated** with multidisciplinary teams, contractors, and suppliers to ensure timely project execution.
- **Conducted** inspections, prepared technical reports, and supported commissioning activities.

Education

- **PhD, (Doctor of Philosophy) - Electronic and Electric Engineering Department, Communication Group | University of Sheffield, The UK**
 - **Thesis:** Design Millimeter-wave Dielectric Resonator Antennas for off/on-body Applications
 - **Dates:** 2019 – 2023
- **MSc, (Master of Science) - Telecommunication and Electronic Engineering | Sheffield Hallam University, Sheffield, The UK**
 - **Grade:** Merit
 - **Dates:** 2014 – 2015
- **Bachelor's Equivalent Modules - Telecommunication Engineering Section | Postgraduate Academy in Tripoli, Libya**
 - **Dates:** 2009 – 2010
- **High Diploma - Electronic Engineering | Higher Institute of Engineering Techniques in Tripoli, Libya**
 - **Grade:** Excellent (85.57%)
 - **Dates:** 1996 – 1999

Skills

- Antenna Design
- Mm-Wave Technology
- Collaboration
- Research
- Communication Skills

Publications

- Abdou TS, Saad R, Khamas SK. A Circularly Polarized mmWave Dielectric-Resonator-Antenna Array for Off-Body Communications. *Applied Sciences*. 2023 Feb 3;13(3):2002.
- Abdou, T.S.; Khamas, S.K. A Multiband Millimeter-Wave Rectangular Dielectric Resonator Antenna with Omnidirectional Radiation Using a Planar Feed. *Micromachines* 2023, 14, 1774. <https://doi.org/10.3390/mi14091774>
- Abdou, T. S., & Emhemed, A. A. (2025). High-Gain Circularly Polarized Rectangular Dielectric Resonator Antenna Array at 28 GHz for Millimeter-Wave Applications. *African Journal of Advanced Pure and Applied Sciences (AJAPAS)*, 8-18.
- Albakosh W, Asfour R, Abdou TS, Khalil Y, Khamas SK. Wideband Millimeter-Wave Perforated Cylindrical Dielectric Resonator Antenna Configuration. *Magnetism*. 2024 Mar 18;4(1):73-90.
- Emhemed, A. A., Kara, M. H., & Abdou, T. S. (2024). Performance Analysis of Orthogonal Multiple Access and Non-Orthogonal Multiple Access. *Int. J. Electr. Eng. and Sustain.*, 48-59.
- Abdou TS, Khamas SK. A mmWave Circularly Polarized Wristwatch Dielectric Resonator Antenna for Off-Body Communications. *International Workshop on Antenna Technology (iWAT)*, 2022 May 16 (pp. 168-171). IEEE.
- Abdou TS, Khamas SK. A Low-profile Wide Bandwidth Circularly Polarized Dielectric Resonator Antenna for mmWave Off-Body Applications. *17th European Conference on Antennas and Propagation (EuCAP)*, 2023 Mar 26 (pp. 1-5). IEEE.
- Abdou TS, Khamas SK. Millimeter Wave Dielectric Resonator Antenna for Off-Body Communications with Grooved GP. *International Workshop on Antenna Technology (iWAT)*, 2023 May 15 (pp. 1-4). IEEE.
- Abdou TS, Khamas SK. Omnidirectional Cylindrical Dielectric Resonator Antenna for Off & On Body Communications. *18th European Conference on Antennas and Propagation (EuCAP)*, 2024.
- Abdou, T. (2024). Design of Millimeter-wave Dielectric Resonator Antennas for Off/On-Body Applications (Doctoral dissertation, University of Sheffield).

- Abdou, T. (2015). Active Acoustic Noise Cancellation (AANC): Subtitle. Faculty of Arts, Computing, Engineering and Sciences; Sheffield Hallam University.
- Abdou TS, Dakhil AA, Elshoshi AH, Issa AI, Khaleel M. Investigation of Resonant Modes in Rectangular Dielectric Resonator Antennas. (AAJSR). 2025 Jul 8:55-61.
- Abdou TS, Elghanemi MS, Dakhil AA, Khaleel M. Artificial neural network-based Active Noise Cancellation of ambulance. (NAJSP). 2025 Jul 19:63-70.
- Abdou TS, Asfour R, Mirshekar-Syahkal D, Alsabah M, Khamas SK. Dual Band Dual Radiation Pattern Mm-Wave Hemispherical DRA for On-Body Communication. In 2025 International Conference on Electromagnetics in Advanced Applications (ICEAA) 2025 Sep 8 (pp. 745-747). IEEE.
- Yang S, Asfour R, Abdou TS, Alsabah M, Khamas SK, Mirshekar-Syahkal D. Electronically Beam-Steered Dielectric Resonator Antenna Array for Millimeter-Wave Applications.