

[Tariq Mohammed Alrabiti]

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Date of Birth: [21/12/1988]



PROFESSIONAL SUMMARY

Dedicated Assistant Lecturer in Electrical Power Engineering with over a decade of combined academic instruction, laboratory management, and field-level technical experience. Transitioned from hands-on technician roles to a Teaching Assistant (2016–2022) and currently serving as an Assistant Lecturer (2022–Present) at the Higher Institute of Engineering Technologies, Tripoli. Holds an M.Sc. in Electrical and Computer Engineering (Power Division) and a B.Sc. specialized in FACTS devices control. Prolific researcher with multiple peer-reviewed publications covering power quality, generator diagnostics, and cathodic protection. Backed by professional international training certified by GIZ (Germany). Highly proficient in MATLAB-based simulations.

WORK EXPERIENCE

Assistant Lecturer

Higher Institute of Engineering Technologies – Tripoli, Libya

08/2022 – Present

- Deliver comprehensive lectures and lead laboratory sessions in Electrical Power Engineering, specifically focusing on Power Systems II, Power Electronics, and Power Plants.
- Supervise undergraduate graduation projects, guiding students through research, system design, simulation, and final thesis defense.
- Integrate MATLAB and Multisim into laboratory coursework to conduct advanced simulations of power systems and electronic circuit analysis.
- Establish and manage external academic collaborations, notably with the Academy of Maritime Studies, to enhance educational resources and knowledge exchange.

Teaching Assistant (Demonstrator)

Higher Institute of Engineering Technologies – Tripoli, Libya

2016 – 08/2022

- Conducted practical laboratory experiments and tutorial sessions, helping students apply theoretical power engineering concepts.
- Instructed students on utilizing Multisim for electronic circuit design and MATLAB for mathematical modeling and technical computing in power systems.
- Assisted senior professors in course administration, grading exams, managing laboratory equipment, and maintaining safety protocols.
- Provided continuous mentorship to undergraduate students, improving their academic performance and technical skills.

Electrical Laboratory Technician

College of Electronic Technology – Tripoli, Libya

09/2014 – 07/2016

- Managed, organized, and prepared electrical engineering laboratories for undergraduate experimental coursework and technical training sessions.
- Maintained, calibrated, and performed routine troubleshooting on electrical laboratory equipment, measurement devices, and diagnostic tools.

- Assisted academic staff in guiding students through hands-on circuit testing, verifying technical measurements, and enforcing strict laboratory safety protocols.

Electrical Technician (Residential & Maintenance)

Freelance / Independent Contractor – Tripoli, Libya 2013 – 2016

- Managed residential electrical wiring projects, including full installations, system upgrades, and structural electrical troubleshooting.
- Diagnosed, serviced, and repaired small-scale portable power generators (up to 5 kVA), ensuring efficient backup power functionality.
- Executed practical fault-finding, circuit testing, and replacement of faulty electrical components and safety protective devices.

EDUCATION

Master of Science (M.Sc.) in Electrical and Computer Engineering (Power Division)

[The Libyan Academy] Tripoli – Libya

Graduation: Fall 2021

- **Cumulative GPA:** 3.33 / 4.00

Bachelor of Science (B.Sc.) in Electrical Engineering (Power Division)

University of Azzawia, College of Engineering – Al Zawia, Libya

Graduation: Fall 2012

- **Department:** Department of Electrical and Electronic Engineering
- **General Grade:** Very Good (84.17%)
- **Graduation Project Title:** "The use of TCSC & SSSC to Control the Flow of Power and Damping Out the Oscillation"

PUBLICATIONS & RESEARCH PAPERS

- T. K. Aljedek, A. E. Rawesat, T. M. Alrabiti, "Generator Fault Diagnosis Using Electrical Signature Analysis and Thermal Imaging: A MATLAB-Based Approach," Sabratha Journal of Marine and Comprehensive Sciences (مجلة صبراتة للعلوم البحرية والشاملة), March 2026.
- M. M. Dakhil, T. M. Alrabiti, J. Ashish, H. A. Al-Laqa, "The Impact of 'Electrical Power Quality' on the Operational Safety of Marine Vessels" [Published in Arabic: تأثير جودة الطاقة الكهربائية على سلامة عمل السفن البحرية], Sabratha Journal of Marine Sciences (مجلة صبراتة للعلوم البحرية), February 2025.
- T. M. Alrabiti, M. M. Dakhil, K. M. El-Swayehli, "An Analytical and Simulation Study of an Impressed Current Cathodic Protection System" [Published in Arabic: دراسة تحليلية، تشبيحية لمنظومة الحماية الكاثودية باستخدام التيار المسلط], Comprehensive Sciences Journal (مجلة العلوم الشاملة), November 2024.
- M. S. Hashad, M. M. Dakhil, T. M. Alrabiti, "A Simulation Study of a Proposed Cathodic Protection System for the Boat 'Shafaq' Using a DC Chopper" [Published in Arabic: دراسة تشبيحية لمقترح منظومة حماية كاثودية، للزورق "شفق" بمقطع التيار الثابت], Comprehensive Sciences Journal (مجلة العلوم الشاملة), November 2024.

SKILLS

Technical Skills: MATLAB, Multisim, Electrical Power Systems Analysis, Power Electronics, Generator Fault Diagnosis, Impressed Current Cathodic Protection (ICCP), DC-DC Choppers, Electrical Wiring, Equipment Calibration, Microsoft Office.

Core Competencies: Academic Lecturing, Research & Development, Curriculum Delivery, Student Mentorship, Laboratory Management, Technical Fault-Finding, Maritime Electrical Systems Assessment.

CERTIFICATIONS & PROFESSIONAL TRAINING

- **[Technical Training (modules in electricity)]** – Organized by ****Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH**** – Tunis, Tunisia (25/06/2018 – 18/07/2018).

LANGUAGES

- Arabic: Native speaker (Mother tongue)
- English: Intermediate / B1
- German: Beginner A1

ACADEMIC & PROFESSIONAL REFERENCES

Prof. Dr. Omar Giuma Mrehel

Professor

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Prof .Dr. Abedalbaset M. Ihbal

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