

# **Mohammed Ali Alqarni**

Energetic engineer with a background in project management as well as training in engineering with demonstrated experience of more than 10 years in academia, research and leadership roles. Demonstrated expertise in successfully setting up & running the Deanship of Admission and Registration and the Electrical Engineering department at University of Business and Technology. Collaborated with industry partners in research, coop training, seminars and conferences. Created engineering solutions for local problems such as smart cities, renewable energy, electric vehicles, monitoring systems and robotics.

## **Personal information**

- <https://www.linkedin.com/in/mqarni1/>
- Mobile # +966 556 600 122
- Location : Saudi Arabia
- E-mail: [m.qarni1@hotmail.com](mailto:m.qarni1@hotmail.com)
- Date of birth: May 10<sup>th</sup> 1986

## **Education**

---

Brunel University London, <i>Doctor of Philosophy</i> in <i>Electrical and Electronic Engineering</i>	London, UK, 2016
Brunel University London, <i>Master of Science</i> in Engineering Management	London, UK, 2010
King Abdulaziz University, <i>Bachelor of Science</i> in Electrical Engineering	Jeddah, KSA 2008

## **Experience**

---

<b>University of Business and Technology (UBT)</b>	Jeddah, KSA
- Dean of Admission and Registration	Dec 2022 – <b>Present</b>
- Chair of Labor Committee	Mar 2022 – <b>Present</b>
- Associate Professor, EE Department	Sep 2022 – <b>Present</b>
- Assistant Professor, EE Department	Feb 2017 – Sep 2022
- Vice dean of Admission and Registration	Sep 2022 – Dec 2022
- Chairman of Electrical Engineering Department	Sep 2017 – Dec 2020
<b>Technical &amp; Vocational Training Corporation</b>	Jeddah, KSA
- Part-time Lecturer and Trainee	Sep 2022 – <b>Present</b>
<b>Brunel University London</b>	London, UK
- PhD researcher	2011 – 2016
<b>ABB Automation</b>	Riyadh, KSA
- Quality Control and Testing Engineer	Aug 2008- Jan 2009
<b>Saudi Aramco Company</b>	Dhahran, KSA
- Trainee at the Facility Planning Department	Jul - Aug 2007

## Committees & Membership (Selected)

---

- Member, Marketing and Recruiting Committee (UBT) Jeddah, KSA, 2023
- Member, Scientific Committee at the Scientific Competition to Combat Covid-19 Pandemic Jeddah, KSA, 2020
- Member, Scientific Committee at the Smart Grid Conference 2017 - Present
- Member, Media Committee at the Smart Grid Conference 2016 - Present
- Vice President of the Executive Committee of the Gulf Education Exhibition & Conference Jeddah, KSA, 2018-2019
- Member, College of Engineering Quality Committee Jeddah, KSA, 18-19
- Head, Department of EE Quality Committee (UBT) Jeddah, KSA, 18-19
- Head, Department of EE Advisory Committee (UBT) Jeddah, KSA, 18-19
- Head, Department of EE Summer Training Committee (UBT) Jeddah, KSA, 18-19
- Member, Several committees at the EE department (UBT) Jeddah, KSA, 18-19
- Head of ABET Committee at UBT Jeddah, KSA, 2018
- Member, Organizing Committee of the 6<sup>th</sup> Gulf Education Conference Jeddah, KSA, 2017
- Member, Board of Trustees of Innovation and Entrepreneurship Prize London, UK, 2015
- Head of Advisory committee at the 8<sup>th</sup> Saudi Scientific Conference London, UK, 2015
- Head of Accommodation and Transportation Committee at the 6<sup>th</sup> Saudi Scientific Conference London, UK, 2012
- Founder and President of Saudi Arabian Society at Brunel University London, 2011-2013
- President of Saudi Students Club in London 2012. London, UK, 2012

## Certifications

---

Project Manager Professional (PMP)	Oct. 2022
Certified International Project Manager	May. 2017
Assessment of Learning Outcomes using RUBRICS	Feb, 2018
Graduate Teaching Assistant	Dec. 2015

## Samples of Projects

---

- Highway Smart Monitoring System using Machine Learning
- Intelligent Robot for Landmine Detection
- Smart Irrigation Robot
- Design of Solar System for Street Lights
- The Impact of Electric Vehicle Charging & Discharging on the Grid
- The Design of Self-Driving Robot for Collecting Recycling
- Intelligent Safety System for School Bus
- An analysis of Energy Consumption at the College of Engineering Building
- Smart Recycling Bin Using Machine Learning

## Achievements (selected)

---

- Managed the transition of the Electrical Engineering department resulting in successful delivery.
- Assists in managing projects and provides analysis in support of department and corporate objectives
- Lead the Electrical Engineering Department’s team to achieve the NCAAA accreditation successfully
- Participate effectively in the effort to acquire the NCAAA institutional accreditation for the University of Business and Technology
- Play main role in the executive committee in organizing and delivering the 10<sup>th</sup> Gulf Education Conference and Exhibition hosted at University of Business and Technology
- Lead the project of facilitating, equipping the new laboratories at UBT
- Creates curriculum and provide classes in various subjects related to Project Management and Electrical Engineering
- Develops project plans to address different objectives. Partners with business unit managers in identifying opportunities to improve
- Participating in many committees that were responsible of drafting criteria and regulations for Employee Excellence prize, university strategic plan, advisory board guidelines and the UBT graduate attributes
- Prepare an operation plan for the College of Engineering new branch in the eastern region
- Undertaking many initiatives to improve customer satisfaction and loyalty at UBT

## Delivered Courses & Workshops

---

- Project Management
- Solar Systems Installation
- Energy Utilization
- Power Electronics
- Renewable Energy
- Electrical Power System
- Electric Machines
- Basic Electrical Circuit
- Independent Design
- Concept of Engineering Management
- Computational Methods of Engineering
- Communication Skills

## Skills

---

- Computer skills includes:**
- Microsoft Project
  - PVsyst
  - Matlab Simulink
  - ETAP software
  - Microsoft Office (Word, PowerPoint, Excel)
  - Arena Software
  - Fluent in Arabic and English oral and written
  - Teamwork player
  - Adaptability to different job roles
  - Creativity and Excellent communication skills
  - Leadership skills
  - Ability to teach and mentor

## Publications and Conferences

- Soomro, Jahangir Badar, Faheem Akhtar Chachar, Hafiz Mudassir Munir, Jamshed Ahmed Ansari, Amr S. Zalhaf, **Mohammed Alqarni**, and Basem Alamri. "Efficient Hardware-in-the-Loop and Digital Control Techniques for Power Electronics Teaching." *Sustainability* 14, no. 6 (2022): 3504.
- Ganapaneni, Swapna, Srinivasa Varma Pinni, Ch Rami Reddy, Flah Aymen, **Mohammed Alqarni**, Basem Alamri, and Habib Kraiem. "Distribution System Service Restoration Using Electric Vehicles." *Energies* 15, no. 9 (2022): 3264.
- Mohamed, Naoui, Flah Aymen, **Mohammed Alqarni**, Rania A. Turky, Basem Alamri, Ziad M. Ali, and Shady HE Abdel Aleem. "A new wireless charging system for electric vehicles using two receiver coils." *Ain Shams Engineering Journal* (2022). ISI (IF:3.19)
- Mohamed, Naoui, Flah Aymen, **Mohammed Alqarni** " Inductive Power Transmission System for Electric Car Charging Phase: Modeling plus Frequency Analysis" *World Electric Vehicle Journal* (2021).
- Čalasan, Martin, **Mohammed Alqarni**, Marko Rosić, Nikola Koljčević, Basem Alamri, and Shady HE Abdel Aleem., "A Novel Exact Analytical Solution Based on Kloss Equation towards Accurate Speed-Time Characteristics Modeling of Induction Machines during No-Load Direct Startups". *Applied Sciences*, 11(11),2021, p.5102. ISI (IF:2.67)
- Sehil, Khaled, Basem Alamri, **Mohammed Alqarni**, Abdulhafid Sallama, and Mohamed Darwish. "Empirical Analysis of High Voltage Battery Pack Cells for Electric Racing Vehicles." *Energies* 14, no. 6 (2021): 1556. ISI (IF:3.1)
- Hamdy A. Ziedan and **Mohammed Alqarni**, "Fault Location on Parallel Transmission Lines as Influenced by Mutual Effect, *2019 IEEE 8th International Conference on Advanced Power System Automation and Protection (APAP)*, 2019, pp. 51-58
- Mohammad A. Kanan, Abdulrahman S. Al-Gahtani, **Mohammed Alqarni**, Ramiz Assaf. "Voltage Profile Power Quality Effects In Radial Distribution Feeder Medium Voltage 33kilovolt And Remedial Measures, *International Journal of Scientific & Technology Research*, vol. 9, Feb 2020
- **Mohammed Alqarni**, M. Darwish, "Maximum Power Point Tracking for Photovoltaic with High Efficiency Inverter Connected to the Grid" at the 4<sup>th</sup> Smart Grid Conference, Jeddah 14-17 Dec 2014. (*IEEE Conference*)
- **Mohammed Alqarni**, M. Darwish, "A Maximum Power Point Tracking for a Photovoltaic System based on Optimum Sinusoidal Modulated Control Pulses" at the 49<sup>th</sup> Universities' Power Engineering Conference, Cluj-Napoca 2-5 Sep 2014. (IEEE Conference)
- Mohammed Radi, M. Darwish, **Mohammed Alqarni**, "Voltage regulation considerations for the design of hybrid distribution transformers" the 49<sup>th</sup> Universities' Power Engineering Conference, Cluj-Napoca 2-5 Sep 2014. (*IEEE Conference*)
- **Mohammed Alqarni**, M. Darwish, "Maximum Power Point Tracking for Photovoltaic System: Modified Perturb and Observe Method" at the 47<sup>th</sup> Universities' Power Engineering Conference, London 4-7 Sep 2012. (*IEEE Conference*)
- Presenting a paper at the Fifth annual Student Research conference, Brunel University, June2012.