

# BADR AL FAIYA

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## QUALIFICATIONS

Talented, focused professional with experience in engineering, technology and computer applications, and project management. Possesses extensive education qualifications with a PhD, Masters and Bachelors in Electrical and Computer Engineering. Leverages technical and mathematical skills to develop innovative solutions. Skilled researcher, lecturer, trainer, and team leader. Supportive team player, respected for analytical thought process, valuable idea generation and insight. Bilingual in Arabic and English. Proficient in programming languages and management tools.

## EDUCATION

UNIVERSITY OF STRATHCLYDE, Glasgow, United Kingdom, 2023

***PhD, Electronic and Electrical Engineering***

CARLETON UNIVERSITY, Ottawa, ON, Canada, 2012

***Master of Science, Electrical and Computer Engineering***

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS, Dhahran, Saudi Arabia, 2004

***Bachelor of Science, Electrical Engineering***

Medium of Instruction: English

## WORK EXPERIENCE

JAZAN UNIVERSITY, Jazan, Saudi Arabia

Mar '14 – Present

***Assistant Professor (full-time)***

***Electrical and Electronic Engineering Department***

UNIVERSITY OF STRATHCLYDE, Glasgow, United Kingdom

2018 – 2022

***Teaching Assistant (during PhD's studies)***

***Electronic and Electrical Engineering Department***

ENERGY CARE COMPANY, Jeddah, Saudi Arabia

Feb '13 – Mar '14

***Manager, Product Development - AMI Products and Services***

UNITED GALAXY COMPANY, Jeddah, Saudi Arabia

Aug '12 – Feb '13

***Project Manager***

CARLETON UNIVERSITY, Ottawa, Canada

2020 – 2011

***Teaching Assistant (during master's studies)***

***Electrical & Computer Engineering Department***

SAUDI ELECTRICITY COMPANY, Abha, Asir, Saudi Arabia

Jan '05 – May '08

***Electrical/Generation Engineer – Generation Control Systems***

SAUDI ELECTRICITY COMPANY, Dammam, Saudi Arabia

Jan '03 – Sept '03

***Electrical Engineering Co-op***

### **RESEARCH & PUBLICATIONS**

UNIVERSITY OF STRATHCLYDE, Glasgow, Scotland (2016 - 2023)

***PhD Research***

Research title: Distributed intelligence and control for future electrical networks

Supervisor: Professor Stephen McArthur, PhD, CEng, FIET, FIEEE

CARLETON UNIVERSITY, Ottawa, ON, Canada, 2012

***Master's Thesis***

Thesis title: Learning in pursuit-evasion differential games using reinforcement fuzzy learning

Supervisor: Professor Howard Schwartz, PhD, (M.I.T.), P.Eng

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS, Dhahran, Saudi Arabia, 2014

***Senior Design Project*** (I was the Project Leader)

Project title: Design of a hybrid solar-wind-diesel power system for a remote village

Awarded grade: A+

### **PROFESSIONAL ASSOCIATIONS**

<i>Member, IEEE</i>	2003 – Present
<i>Member, Smart Grid Community, IEEE</i>	2013 – Present
<i>Member, Computer Society, IEEE</i>	2015 – Present
<i>Member, Institution of Engineering and Technology (IET)</i>	2012 – Present
<i>Member, Project Management Institute – PMI - PMP</i>	2011 – Present

### **AWARDS & ACTIVITIES**

***Volunteer, Certificate***, International Universities Power Engineering Conference, Glasgow, 2018

***Presented a poster at HubNet***, Smart Grid and Infrastructure Symposiums, Bath University, 2017

***Participate in HubNet***, Smart Grids Symposium, University of Strathclyde, 2016

***Certificate for Distinguished Participation***, Saudi Arabia Smart Grid Conference, 2014

***Certificate for Distinguished Participation***, Saudi Arabia Smart Grid Conference, 2013

***Certificate for Distinguished Participation***, O&M for Power Plants in Saudi Arabia, 2007

***Participate in technical seminar***, ABB Power Generation Technology RoadShow, 2006

### **SELECTED TRAINING COURSES**

***Training Courses:***

- Writing and Presenting Professional, University of Strathclyde, Glasgow
- Communication Workshop (three months), Carleton University, Canada
- Computer Techniques, Saudi Electricity Company, Abha
- Ovation Control System – Emerson's Plant Web Digital Architecture, Abha
- Digital Techniques for Relays, ACT Centre, Dammam
- Technical Report Writing & Business Writing, Saudi Electricity Company, Abha
- Effective Communication, Saudi Electricity Company, Abha
- Control Equipment, Saudi Electricity Company, Dammam
- ETAB, EDSA and MATLAB short courses, KFUPM, Dhahran