



Fahad S S S S Alsaiedi

Date of birth: 1 Oct 1985 | **Nationality:** Kuwaiti | **Phone number:**

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ABOUT ME

A dedicated and accomplished Electrical Engineer with a rich blend of hands-on experience, academic achievement, and teaching proficiency. Currently serving as a Trainer at the Higher Institute of Energy (HIE), specializing in a broad range of electrical engineering topics. Holds a Master of Science degree in Electrical Engineering from Virginia Tech. Committed to lifelong learning and sharing knowledge with others.

WORK EXPERIENCE

18 NOV 2008 – 5 MAR 2014 Kuwait, Kuwait

ELECTRICAL SUBSTATION MAINTENANCE ENGINEER MINISTRY OF ELECTRICITY AND WATER (MEW)

- Executed comprehensive maintenance on a variety of substation equipment, including transformers, circuit breakers, and protection relays, ensuring optimal performance and minimizing downtime.
- Conducted extensive testing on protection devices in distribution substations, including overcurrent relays, differential protection relays, and distance relays, contributing to the reliability and safety of electrical systems.
- Mentored new engineers, fostering a culture of continuous learning and adherence to safety protocols. Provided hands-on training on maintenance procedures, safety protocols, and troubleshooting techniques.
- Conducted regular checks on testing equipment such as insulation resistance meters, gas analysis devices, and high voltage test devices to ensure their suitability for 11 KV maintenance.
- Collaborated with a team of engineers to troubleshoot and resolve complex electrical issues, improving overall system reliability.
- Managed and maintained records of all maintenance activities, including preventive maintenance schedules, equipment repair records, and equipment replacement records, ensuring compliance with regulatory standards and facilitating effective communication across teams.

6 MAR 2014 – CURRENT Shuwaikh, Kuwait

TRAINING FACULTY MEMBER IN ELECTRICAL NETWORK DEPARTMENT HIGHER INSTITUTE OF ENERGY (HIE), PUBLIC AUTHORITY OF APPLIED EDUCATION AND TRAINING (PAAET)

- Delivered instruction on a variety of electrical engineering courses, including power systems, electrical machines, and power electronics, providing students with a solid foundation in electrical engineering principles.
- Supervised field training for students, guiding them as they apply classroom learning in real-world scenarios. Provided feedback and guidance to students during field training, helping them improve their practical skills and understanding of electrical engineering concepts.
- Contributed to the development of course materials and curriculum, ensuring content is up-to-date, relevant, and engaging for students. Regularly updated course materials to reflect the latest developments in electrical engineering.
- Evaluated student performance through exams, assignments, and practical tests, providing constructive feedback and personalized instruction to help students improve their understanding and application of course material.
- Collaborated with faculty members to improve course delivery and content. Participated in faculty meetings, curriculum development sessions, and professional development workshops, contributing to the overall quality of the educational program.

● **EDUCATION AND TRAINING**

16 SEP 2003 – 12 JUN 2008 Shuwaikh, Kuwait
BACHELOR DEGREE IN ELECTRICAL ENGINEERING Kuwait University (KUNIV)

Website <https://kuweb.ku.edu.kw/ku/index.htm>

16 SEP 2008 – 29 JUN 2013 Shuwaikh, Kuwait
MASTER OF ELECTRICAL ENGINEERING Kuwait University (KUNIV)

Website <https://kuweb.ku.edu.kw/ku/index.htm>

19 AUG 2019 – 14 MAY 2022 Blacksburg, United States
MASTER OF SCIENCE IN ELECTRICAL ENGINEERING Virginia Tech

Website <https://www.vt.edu/>

● **LANGUAGE SKILLS**

Mother tongue(s): **ARABIC**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **ADDITIONAL INFORMATION**

PUBLICATIONS

[Graph-Theoretic Partitioning for Differential Zone Protection in an Islanded Microgrid](#) – 2023

Published in: 2023 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)

RESEARCH INTEREST

Research Interest

Passionate about advancing knowledge in Electrical Engineering, with a particular focus on Power Systems, Transmission and Distribution Networks, Microgrid, Microgrid Protection, Microgrid Dynamics and Control, Distributed Energy Resources (DERs), Inverter-Based Resources (IBRs), and Microgrid Cybersecurity.

DIGITAL SKILLS

Digital Skills

- **Matlab/Simulink:** Proficient in using Matlab/Simulink for complex mathematical modeling, simulation, and algorithm development. Experienced in creating and optimizing Simulink models for system-level simulation and design.
- **LaTeX:** Highly skilled in using LaTeX for creating high-quality technical and scientific documentation. Experienced in using LaTeX features to create complex mathematical formulas, diagrams, and other custom formatting.
- **Microsoft Office:** Proficient in using Microsoft Office Suite, including Word for document creation, Excel for data analysis and visualization, PowerPoint for presentations, and Outlook for email and calendar management.
- **Digsilent PowerFactory:** Proficient in using Digsilent PowerFactory for power system analysis. Experienced in performing load flow analysis, short circuit analysis, stability analysis, and other power system studies using PowerFactory.
- **Python:** Basic knowledge of Python programming language. Familiar with Python syntax and able to write simple scripts for data analysis and automation.

- **EMPT-RV:** Proficient in using EMPT-RV for electromagnetic transient analysis in power systems. Experienced in modeling and simulating power electronic devices and systems.
- **JMP Pro:** Proficient in using JMP Pro for statistical analysis. Experienced in performing data mining, predictive modeling, and multivariate analysis.
- **C, C++, C#:** Proficient in programming with C, C++, and C#. Experienced in writing efficient code, debugging, and software development.
- **Gridlab-d:** Proficient in using Gridlab-d for power distribution system simulation. Experienced in modeling complex electrical systems and performing simulations for system analysis and design.
- **Simulink / Plecs:** Proficient in using Simulink and Plecs for modeling and simulating dynamic systems. Experienced in creating detailed models for system analysis and control design.
- **LT-Spice:** Proficient in using LT-Spice for electronic circuit simulation. Experienced in creating and simulating circuit designs for analysis and optimization.
- **P-SPICE:** Proficient in using P-SPICE for circuit analysis and design. Experienced in simulating and analyzing analog and mixed-signal circuits.
- **Team Collaboration:** Strong team player with experience working in diverse teams. Skilled in collaborating with others to achieve common goals, and able to effectively communicate technical information to both technical and non-technical team members.
- **Adaptability:** Ability to quickly learn and adapt to new technologies and tools. Comfortable working in fast-paced environments and able to manage multiple tasks simultaneously.

CONFERENCES AND SEMINARS

16 JAN 2023 – 19 JAN 2023 – Washington, DC, USA

2023 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)

NOV 2012 – NOV 2012 – Muscat, Oman

GCC Power 2012 GCC Regional Committee for Large Electric Systems, GCC CIGRE

NOV 2011 – NOV 2011 – Kuwait, Kuwait

GCC Power 2011 GCC Regional Committee for Large Electric Systems, GCC CIGRE

26 OCT 2010 – 28 OCT 2010

10th Conference for Enhanced Building Operations (ICEBO 2010) Kuwait Institute of Scientific Research

TRAINING CORSES AND WORKSHOPS

12 MAR 2023 – 15 MAR 2023

Simple Steps for Academic Accreditation

Organized by Ibn Alhaitham Training Center, PAAET, Kuwait.

2 JAN 2018 – 4 JAN 2018

Programmable Logic Controllers PLC

Organized by Ibn Alhaitham Training Center, PAAET, Kuwait.

2 APR 2017 – 5 APR 2017

Curriculum Development DACUM2

Organized by Ibn Alhaitham Training Center, PAAET, Kuwait.

6 MAR 2016 – 9 MAR 2016

Curriculum Development DACUM1

Organized by Ibn Alhaitham Training Center, PAAET, Kuwait.

31 JAN 2016 – 17 FEB 2016

Trainer Preparation course

Organized by Ibn Alhaitham Training Center, PAAET, Kuwait.

29 NOV 2015 – 2 DEC 2015

The Art of Handling Media

Organized by Ibn Alhaitham Training Center, PAAET, Kuwait.

1 FEB 2015 – 5 FEB 2015

Introduction to MATLAB

Organized by Ibn Alhaitham Training Center, PAAET, Kuwait.

13 APR 2014 – 17 APR 2014

Supervisory leadership in teaching and training

Organized by Ibn Alhaitham Training Center, PAAET, Kuwait

16 JAN 2014 – 19 JAN 2014

Introduction Renewable Energy

Organized by EerTech Training Center, Kuwait

29 SEP 2013 – 3 OCT 2013

Electrical Installation and Wiring

Organized By Kuwait Society of Engineers, Kuwait

3 MAR 2013 – 16 MAR 2013

Operation and Maintenance of Power Transformer in Japan

Organized by Japan International Cooperative Center, Tokyo, Japan

23 DEC 2012 – 27 DEC 2012

Maintenance Engineering Management

Organized by Kuwait University, Kuwait.

20 MAY 2012 – 21 JUN 2012

Theory, Specification, Production Line and Testing of 'AL-AHLEIA' 11 KV Switchgear, Oil Filled Distribution Transformer, Low Voltage Distribution Board, and Battery Charger

Organized by Al Ahleia Company, Kuwait.

2 APR 2012 – 4 APR 2012

Electrical Insulating Oil for Electric Transformer Seminar

Organized by NYNAS-AB Company and MEW, Kuwait

26 OCT 2010 – 28 OCT 2010

Kuwait Energy Code of Practice and Energy Audit Applications

during the 10th International Conference for Enhanced Building Operations