Sajad Ali

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ABOUT ME

As a graduate in electrical engineering, I am passionate and well-prepared to pursue a master's degree and I am eager to contribute my knowledge and skills to further academic and professional growth. My undergraduate experience was marked by a strong focus on practical coursework, hands-on laboratory work, and real-world projects, which have equipped me with a solid foundation in electrical principles and theories. Proficient in technical skills such as programming, circuit design, and data analysis, I am ready to tackle advanced challenges in the field.

WORK EXPERIENCE

01/12/2022 – 31/12/2022

TRAINEE ELECTRICAL ENGINEER SUKKUR ELECTRIC POWER SUPPLY COMPANY

Worked with the protection and inspection team of SEPCO where I assisted them in activities such as monitoring of data and annual maintenance.
Such as:

1. Assisted with the maintenance and repair of equipment on the grid. Including inspecting and testing equipment e.g. relays, transformers and circuit breakers identifying and troubleshooting problems, and making repairs as needed.
2. Participating in the planning and design of new grid infrastructure, including transmission lines, substations, and other components.
3. Monitoring and analyzing data from the grid to identify trends and potential issues, and developing strategies to address any problems.

02/01/2023 – CURRENT Sukkur, Pakistan

NETWORKS ENGINEER NETS INTERNATIONAL

Power Management:

1. Managing power distribution and efficiency within electronic devices and systems to optimize performance and reduce energy consumption. Managing installed PV systems and their maintenance.

Quality Assurance and Compliance:

1. Ensuring that electrical and electronic systems meet regulatory and safety standards, as well as compliance with industry-specific certifications.

Collaboration:

1. Collaborating with software engineers, network administrators, and other professionals to ensure seamless integration of hardware and software components. Technical Support:
2. Providing technical support to internal teams and customers by troubleshooting and resolving hardware-related issues.

Continuous Learning:

1. Engaging in ongoing professional development to keep up with the rapidly evolving field of ICT and electrical engineering

EDUCATION AND TRAINING

03/08/2018 – 03/10/2022 Sukkur, Pakistan

BE ELECTRICAL ENGINEERING (POWER) SUKKUR IBA UNIVERSITY

Main Subjects:

1. **Circuit Theory and Analysis**: Understanding the fundamentals of electrical circuits, including Ohm's law, Kirchhoff's laws, and circuit analysis techniques.
2. **Electromagnetism:** Knowledge of electromagnetic fields, Maxwell's equations, and how they relate to electrical devices and systems.
3. **Digital Electronics:** Study of digital logic gates, flip-flops, microprocessors, and digital circuit design.
4. **Analog Electronics**: Design and analysis of analog electronic circuits, including amplifiers, oscillators, and filters.
5. **Power Systems**: Understanding the generation, transmission, and distribution of electrical power, as well as power factor correction and power quality issues.
6. **Control Systems:** Knowledge of control theory and the design of control systems for automation and regulation.
7. **Electrical Machines**: Study of electric motors, generators, and transformers and their analysis.
8. **Electronics and Semiconductor Devices**: Understanding the operation and characteristics of semiconductor devices such as diodes, transistors, and integrated circuits.
9. **Renewable Energy and Power Electronics**: Specialized knowledge in renewable energy sources (solar, wind, etc.) and power electronic converters.
10. **Communication Systems:** Concepts related to analog and digital communication, modulation techniques, and transmission systems.

Occupational Skills:

1. **Circuit Design:** Creating electrical circuits for various applications, considering factors like efficiency, safety, and cost-effectiveness.
2. **Programming:** Proficiency in programming languages like C, C++, and MATLAB for developing control algorithms and simulations.
3. **Troubleshooting and Problem Solving:** Diagnosing and resolving electrical and electronic issues efficiently.
4. **CAD Software:** Utilizing computer-aided design (CAD) software for schematic capture and PCB (Printed Circuit Board) design.
5. **Testing and Measurement:** Using various tools and instruments for testing and measuring electrical properties and performance.
6. **Project Management:** Organizing and managing projects, including budgeting, scheduling, and resource allocation.
7. **Technical Documentation:** Preparing clear and comprehensive technical reports, manuals, and documentation.
8. **Safety Compliance:** Ensuring that electrical systems and designs adhere to safety codes and standards.
9. **Teamwork and Communication:** Collaborating effectively with multidisciplinary teams and conveying technical information clearly.
10. **Continuous Learning:** Staying updated with the latest advancements in technology and industry trends.

Address Sukkur IBA University. Nisar Ahmed Siddiqui Road, 65200, Sukkur, Pakistan | **Website** www.iba-suk.edu.pk |

Thesis Optimization of Parameters for Biogas Production from Food Waste

INTRODUCTION TO POWER ELECTRONICS University of Colorado Boulder-Coursera

Website https://coursera.org/share/cd5d6f6a85304e8ea4b72c415d2b7537

25/08/2015 – 25/08/2017 Khairpur, Sindh, Pakistan

INTERMEDIATE Board of Intermediate and Secondary Education Sukkur

Address Mazher Model Higher Secondary School Rani Pur, Service Road, , 66100, Khairpur, Sindh, Pakistan

08/04/2013 – 08/04/2015 Sukkur,, Pakistan

MATRICULATION BISE SUKKUR

Address Shikarpur Road, Makha Goth, 65210, Sukkur,, Pakistan

CONFERENCES AND SEMINARS

21/11/2022 – 21/11/2022 Nisar Ahmed Siddiqui Road Sukkur Sindh, Pakistan
IEEE SCONEST 22

12/06/2022 – 13/06/2022 Nisar Ahmed Siddiqui Road Sukkur Sindh, Pakistan
IEEE Region 10 Robotics Computation

30/01/2019 – 31/01/2019 Nisar Ahmed Siddiqui Road Sukkur Sindh, Pakistan
2nd iCoMET 2019

PROJECTS

26/01/2022 – 09/02/2022
Reactor Placement in IEEE 9 –Bus Mesh Distribution System and Analyzing Different Parameters on PSSE

PLC Based Motor Speed Monitoring System

Variable Power Supply (220AC to 0/12V DC)

HONOURS AND AWARDS

21/11/2022
Winner of IEEE SCONEST 22 for abstract "Optimization of Biogas Production from Food Waste" – IEEE and Sukkur IBA University

15/10/2021
Winer of PCB design competition – Mehran University of Engineering and Technology Jamshoro

15/08/2017
Achieved Sindh Talent Hunt Scholarship to complete Bachlors at Sukkur IBA University – Sukkur IBA University

LANGUAGE SKILLS

Mother tongue(s): **SINDHI** | **BALOCHI** | **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B1	B1	C1

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

DIGITAL SKILLS

Microsoft Office | Microsoft Word | Microsoft Powerpoint | Microsoft Excel | Zoom | Power Point | Google Docs | Social Media | Internet user | Organizational and planning skills

VOLUNTEERING

Sukkur IBA University
Organized 'Say No to Drugs' campaign

Sukkur
Volunteered in Organizing of Blood donation camp for Thalassemia patients

ONLINE COURSES

Understanding Research Methods

Link https://coursera.org/verify/JNLCYHJVXT8L

Work Smarter, Not Harder: Time Management for Personal & Professional Productivity

Write here the description...

Link https://coursera.org/verify/A5VVW6E4URZ7

An Introduction to Programming the Internet of Things (IOT)

Link https://coursera.org/verify/specialization/F76YS8HFZRST

Programming for Everybody (Getting Started with Python)

Link https://coursera.org/verify/8ZHSHABFX52P