

# Irfan Muhammad

## Electrical Engineer

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☎ +966 53 9917447

📍 Riyadh

📄 Transferable Visa & Iqama

🌐 <https://www.linkedin.com/in/eng-irfan/>



### SUMMARY

Pakistan Engineering Council (PEC) registered Electrical Engineer with over 5 years of experience in electrical design, site execution, and project coordination within MEP and construction environments. Experienced in preparing detailed shop drawings, as-built drawings, load calculations, and technical documentation using AutoCAD and Revit, ensuring accuracy and compliance with project specifications and international standards.

Possess strong knowledge of electrical systems including power distribution, lighting, low current systems, and panel installations. Proven ability to provide technical support throughout project lifecycles, coordinate with consultants, contractors, and multidisciplinary teams, and ensure smooth execution of electrical works.

Proficient in MS Office tools for reporting, documentation, and data analysis, with excellent command of written and spoken English. Skilled in reviewing drawings, resolving technical issues, and ensuring compliance with applicable electrical codes and client requirements.

A detail-oriented and proactive professional with strong problem-solving abilities, committed to delivering high-quality engineering solutions while meeting project deadlines and maintaining safety and quality standards.

### EXPERIENCE

#### Electrical Design Engineer

07/2022-1/2026

**Organization: Creative Engineering & Management Services (CEMS)**

#### Scope of work:

- Designed and developed electrical systems for infrastructure and building projects, including power distribution, lighting, and low current systems in MEP environments.
- Prepared detailed shop drawings, single-line diagrams, load schedules, and as-built drawings using AutoCAD and Revit MEP, ensuring accuracy and compliance with project specifications.

- Coordinated with consultants, architects, and site teams to review drawings, resolve technical issues, and ensure smooth project execution.
- Provided technical support during design and execution phases, ensuring alignment with client requirements and applicable electrical codes and standards.
- Reviewed and updated design documents, ensuring all drawings and documentation were properly maintained and aligned with project progress.
- Assisted in site coordination and supported installation teams to ensure work was executed according to approved drawings and quality standards.
- Utilized MS Office tools for technical reporting, documentation, and project coordination.

## EDUCATION

**BSc Electrical Engineering University of Engineering and Technology Peshawar.**  
**CGPA=3.55/4**

### Final Year Project:

- Comparative Analysis of Different Machine Learning Algorithms for Short Term Forecasting of Load And Generation for Solar Power Plant of Pakistan.

## CERTIFICATES

- Udemy- Ultimate Electrical Design Course from Zero to Hero
- Udemy - The Complete Electrical Power with ETAP And Manual Analysis
- Coursera - Industrial Power Systems Analysis and Stability
- Pakistan Engineering Council (PEC Registered Electrical Engineer)

## PROJECTS

### **1. Electrical Design & Load Calculations.**

- Performed electrical load calculations and designed LV power distribution, panel schedules, and SLDs per NEC & IEC standards.
- Developed AutoCAD electrical layouts and coordinated with architectural and mechanical drawings.

### **2. Lighting Design & Simulation Using DIALux Evo.**

- Designed interior and exterior lighting layouts and verified lux levels using DIALux Evo.
- Prepared lighting calculation reports and construction drawings in compliance with applicable standards.

### 3. LV Power Distribution & Protection Calculations.

- Designed MDB/SMDB distribution systems, cable sizing, and protective device selection.
- Assisted in earthing and grounding design and performed basic analysis using ETAP.

### 4. BIM-Based Electrical Modeling Using Revit.

- Developed electrical models and layouts (lighting, power, containment) using Revit (BIM).
- Coordinated with multidisciplinary teams and generated drawings and schedules from the model.

## SKILLS

- Microsoft Office
- Autodesk AutoCAD
- ETAP
- PSSE
- Revit
- DIALux Evo
- Documentation
- Report Writing
- Analytical & Problem-solving skills
- Excellent negotiation skills

## LANGUAGES

**English**  
Fluent

**Urdu**  
Native

**Arabic**  
Beginner



**CEMS**

**Creative Engineering &  
Management Services**

Ref: CEMS/HR/ELE.12

Date: 1st January 2026.

### Experience Certificate

This is to certify that **Mr. Irfan Muhammad S/O Hazrat Muhammad** having CNIC: **15307-4636779-3** was employed with Creative Engineering & Management Services Peshawar as Electrical Design Engineer from 1st July 2022, to 1st January 2026.

During this time, he has worked on various projects, including Infrastructure and Building Electrical Design.

We wish **Mr. Irfan Muhammad** success in his future endeavors.



Engr. **Muhammad Sohail**

Managing Partner CEMS

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Email: [creativeengmgmt@gmail.com](mailto:creativeengmgmt@gmail.com)

Web: [www.cemsglobal.org](http://www.cemsglobal.org)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

*University of Engineering & Technology  
Peshawar, Pakistan*

*By virtue of the authority granted by Statutes, the University has conferred the degree of*

*Bachelor of Science*

*in*

*Electrical Engineering*

*upon*

**Irfan Muhammad**

(Registration No.21PWELE5816)

*S/O*

**Hazrat Muhammad**

*Who is entitled to all rights and honours thereto appertaining,  
this 29<sup>th</sup> Day of July, Two Thousand and Twenty Five*

  
Registrar



  
Vice Chancellor

Serial No. **335724**

Form PEC-7

Registration No: **ELECT/113293**

Date of Registration: **Nov 07, 2025**



**PAKISTAN ENGINEERING COUNCIL**  
**CERTIFICATE OF REGISTRATION**  
(UNDER PAKISTAN ENGINEERING COUNCIL ACT 1976)  
**REGISTERED ENGINEER**

This is to certify that **ENGR. IRFAN MUHAMMAD** son of **HAZRAT MUHAMMAD** born on **APR 01, 2003** resident of **TANGI BALA MIAN BRANGOLA TEHSIL ADENZAI DISTRICT DIR LOWER** has been registered with Pakistan Engineering Council as **REGISTERED ENGINEER** on the basis of following particulars:-

Engineering Qualification: **B.Sc. ELECTRICAL ENGINEERING / 2025 - UNIVERSITY OF ENGINEERING AND TECHNOLOGY, PESHAWAR (MAIN CAMPUS)**

Date of Issue: **Nov 22, 2025**



Registrar

**Note:** This registration certificate is valid until **DEC 31, 2025** unless renewed further.  
This certificate is property of Council, returnable on request.



Certificate no: UC-309f5ec4-9649-4888-80cd-eb1fc279bada  
Certificate url: ude.my/UC-309f5ec4-9649-4888-80cd-eb1fc279bada  
Reference Number: 0004

CERTIFICATE OF COMPLETION

# Ultimate Electrical Design Course from Zero to Hero

Instructors **Engr. Ahmed Mahdy**

**Irfan Muhammad**

Date **June 21, 2025**  
Length **48.5 total hours**



Certificate no: UC-d18b8d77-f2f1-4965-8e98-8fc78dfad538  
Certificate url: ude.my/UC-d18b8d77-f2f1-4965-8e98-8fc78dfad538  
Reference Number: 0004

CERTIFICATE OF COMPLETION

# The Complete Electrical Power with ETAP & Manual Analysis

Instructors **United Engineering**

**Irfan Muhammad**

Date **July 3, 2025**  
Length **30 total hours**



3 Courses

Power System Modelling and  
Fault Analysis

Load Flow Analysis

Power System Stability

L&T  
EduTech

Aug 9, 2025

**Irfan Muhammad**

has successfully completed the online, non-credit Specialization

## Industrial Power Systems Analysis and Stability

Earn your Specialization certificate in Power System Engineering with our comprehensive program comprising three major courses. In "Power System Modelling & Fault Analysis," delve into grid network structures, component modelling, and fault analysis techniques through real-time simulations. "Load Flow Analysis" equips you with matrix formation and power flow equation formulation, covering traditional methods like Gauss-Seidel and Newton Raphson. Lastly, "Power System Stability" offers a detailed understanding of stability classifications, transient stability analysis, voltage stability concepts, and the application of FACTS controllers and Power System Stabilizers through real-world case studies. Master these essential areas to excel in power system engineering.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Subject Matter Expert  
L&T EduTech

Verify this certificate at:

<https://coursera.org/verify/specialization/90E771VZx6MS>