

ARSALAN U KHAN, PE

Electrical Engineer

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📍 Islamabad, PAK

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EDUCATION

Bachelor of Science
Electronics Engineering

IIUI University

📅 2007 - 2011

📍 Islamabad, PAK

PRE-Engineering
Higher Secondary School

BISE Sargodha

📅 2004 - 2006

📍 Sargodha, PAK

PRIMARY SKILLS

- Electrical Engineering
- Power system analysis
- Protection & Control
- Voltage Stabilization
- Reactive power control

SUMMARY

A professional and enthusiastic Senior Electrical Engineer with 10+ years of expertise in **designing, developing, and troubleshooting electrical systems**. Enjoy solving complex power system design and analysis problems and eager to enhance system efficiency.

Highly committed and passionate Electrical engineer with a solid background in **multiple engineering disciplines internationally**. Always prepared to confront challenges, driven and ambitious person capable of efficaciously working in a fast-paced environment.

A professional Skilled at handling multiple tasks of technical nature and thoroughly familiar with **multiple computer tools**. A results-driven professional with diverse experience in key areas such as **Electric Project Design, Project calculations, core project studies, Load flow, Short Circuit, VD, Arc-flash, PRD, Stability Analysis, Motor starting, Harmonics, switch gear Cost & Estimation, switch gear deigns, shop drawings, MCCs, SLDs, Cable sizing, layout and much more.**

WORK EXPERIENCE

Senior Electrical Engineer – Jeddah Branch

First Fix

📅 2018 - current

📍 Jeddah, KSA

- Designing the **perimeter security for a solar power plant in Jubail** (ARAMCO) and cable/equipment sizing using Etap.
- MTS approvals of (**ALYMAMA and ROSA phase-1, Phase-2** Projects approval) including **GENSETS, PSS, Cables**, wiring devices, switches, and **switch gears/panel boards**, earthing and grounding scope.
- Electrical Cost and estimation for Sharma Project (Tabuk), Royal villas and clubhouses. (**MTS & approvals from SDC consultant**).
- **MV scope estimation**, Transformers & RMU, USS / PSS Design and Estimation for tender of megaprojects in the company.
- Design the complete power system from Generation to sockets of **barkan island project**. Generators, Relays, Timers, CT, PT, SUB-STATIONS (PSS, USS) Transformers, RMU, POWER Circuit Breaker, LV Equipment, PF correction, Electrical Switchgear, Busways & Automatic Transfer Switch (ATS), MTS, SYNCs, and more.
- A part of team that worked on the **naval base jubail project, Abha Airport project, Ajjad hotel & hospital project. ROSA** (phase-1, phase-2. review of panel boards with consultant for short circuit and coordination & design) **ALYAMA** Project cost estimation for Electrical scope in complete MEP. **Sharma project** technical assistance for all electrical scope and approvals of materials.

- ♦ Protection coordination
- ♦ Technical Support
- ♦ Project Design (VD, Sizing)
- ♦ Single Line Diagram (SLD)
- ♦ IEC/BS/IEEE Standards
- ♦ Cost Estimation
- ♦ LV/MV Switchgear
- ♦ Switchgear Design(CAD)
- ♦ Shop drawings.
- ♦ Technical Submittals.
- ♦ Compliance Sheets
- ♦ Troubleshooting Systems
- ♦ Equipment Maintenance.
- ♦ Project Management.

SECONDARY SKILLS

- ♦ Conceptual knowledge
- ♦ Can do attitude
- ♦ Well Disciplined
- ♦ Highly Motivated
- ♦ Good Communication Skills (IELTS 7.0)
- ♦ Highly Organized
- ♦ Analytical skills
- ♦ Leadership skills
- ♦ Honest Person.

SOFTWARE SKILLS

- ♦ ETAP (12.6 to 20.6)
- ♦ AutoCAD
- ♦ Power World Simulator
- ♦ PSCAD
- ♦ EASY POWER
- ♦ ECO_DIAL (Schneider)
- ♦ MATLAB
- ♦ EPLAN Electrical
- ♦ MS Office

Senior Technical Engineer –Bahra Branch

Bahra Cables - Jeddah

📅 2016 - 2018

📍 Jeddah, KSA

- ♦ Technical Design and Engineering services like Complete Project Studies Like, Project Coordination Study, Discrimination studies, Load flow, Short Circuit studies.
- ♦ Cables/Conductor size Calculations, V drop calculation, Heat dissipation, Motor starting & Stability studies.
- ♦ Project Technical Submittals and approvals with Project Design and Estimation Review.
- ♦ Customer and Client Meetings to carry out their requirements as per the Proper Solution.
- ♦ Basic Design Equipment (Schneider Electric, Legrand) as Primary and others (Siemens, ABB, GE, Mitsubishi and as secondary for project studies.
- ♦ Conducted **KKU Abha Project**. (Isc / coordination & design review with a consultant.) **KAP -4, Kap-5 Technical study**, Heat dissipation, Isc, coordinating and design review with client & consultant. **KAIA (King Abdul-Aziz international Airport) review & compliance**. **AL-Sail tower** Etap study and specs review, with design approval.

Design/Estimation Engineer Riyadh-Jeddah

Electric House (PC)

📅 2013 - 2016

📍 Riyadh/Jeddah, KSA

- ♦ Determine & implement the strategy of, making project study, & design of LV Electrical Projects.
- ♦ Work closely with inside design group to develop best project cost Estimation strategies & estimate the whole Project & provide best technical/Commercial offer affordable by Client.
- ♦ Submittals as builds and other Technical or engineering related (certificates & approvals of the used products).
- ♦ Study customer operation to understand their technical direction & application requirements in order to help them define their technical needs & recommend solutions that meet those needs utilizing company products/stock as priority.
- ♦ Designed shop drawings from specifications and estimation sheets with CAD and created shop drawings with details of Switchgears & panelboards.
- ♦ Planning procurement of material required BOQ, tech specs & tender, Consultant documents.
- ♦ With low voltage design, following design guides and reviewing work for completion via documentation and SOPs.

LICENSES

- Registered Engineer (RE)

Pakistan Engineering Council

📅 20011 – 2024
Reg. # E/14950.

- Registered Engineer (PE)

Saudi Engineering Council

📅 2014 – 2019
Reg. # 186996.

LANGUAGES

- English: Expert**
- Urdu : Expert
- Punjabi: Expert
- Arabic: Working knowledge

REFERENCES

- Will be Provided on request.

- Handling the Project design and estimation of **PBAD projects**.
- Holds the credit of a team that Design and Estimate major projects estimated over **\$153 million** in revenue (KAIA King Abdul Aziz International airport) / HHR (hermain Railways).
- Single handedly estimated and designed 2.0 Million SAR Project of **Pro-care Hospital Khobar**, also a part of Makah (Holly KABBA/Shamia) Extension project. **Jabal e omar Phase 2**.
- Successfully enhanced customer satisfaction level by providing them pre sales technical & post delivery support. Paid requested visits to support customers technically on site.

Project Engineer –Riyadh Branch

MESSCO (Arabian Electrical Co.) Riyadh

📅 2013 - 2013 📍 Riyadh, KSA

- Low voltage (Schneider) Power Panel Boards Designing, Commissioning & site works installation, maintenance.
- Prepare initial project layouts using (Prisma, Universal & Mescoco Panels) according to Customers requisite & Prepare estimation & cost Quotation for project development.
- Designed Panels shop drawings and specifications with CAD.
- Ensure the materials & equipment meets the standard of IEC / NEC, ensure quality control (QA/QC report signing). Prepare reports & send to Project Manager for approval & comments.
- Part of a team working on **Makkah Metro, Al-Marai FARMS, KSU Housing, Daren AL Maha** Projects.

Junior Engineer

YT Solutions Islamabad, Pakistan

📅 2011 - 2012 📍 Islamabad, PAK

- Design and test of electrical designs to ensure project requirements are met, assist with analysis, design, implementation and testing to Implementing changes in PLC/SCADA as per MoC requirements.
- Prepare procedures for testing, Functional testing, Logical Testing, Configuration, logic testing, C&E verification, Functional Checks at various site locations.
- Prepare Scope of works for the complete Instrumentation and Electrical Works, Focus on Instrumentation, safety/shutdown system aspects, etc., during the development of drawings (cause & effect, safety shutdown logic, etc.)

Assistant Engineer (intern)

PTCL, Pakistan

📅 2010 - 2010 📍 Islamabad, PAK

- To operate and monitor the Switching equipment in OLT of the whole exchange and to report the faulty equipment.