

Ammar Pervez

Electrical Site Engineer

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📁 PROFILE

Responsible for the end-to-end engineering, installation, testing, commissioning, and maintenance of Low Current and Low Voltage systems across commercial, industrial, and infrastructure projects, ensuring compliance with international and local standards. Adept at planning, executing, and overseeing projects involving Power, Lighting, Fire Alarm (FA), CCTV, Access Control (ACS), Public Address (PA), WiFi and Structured Cabling. Skilled in supervising installations, preparing technical documentation. Known for a proactive approach, precision in design and execution, and effective communication with project stakeholders. Skilled in managing end-to-end project lifecycles while ensuring adherence to international standards such as IEC, NEC, NFPA, and local regulatory codes.

📁 PROJECTS

Saudi Arabian Military Industrial Complex

08/2024 – present

SAMI Land Industrial Complex

Client: Saudi Arabian Military Industries

Position: Electrical Site Engineer

Scope:

Low Voltage Systems (LV):

Power & Lighting Distribution:

- Installed and commissioned **Main Distribution Boards (MDBs)**, **SMDBs**, and **Final DBs** in accordance with NEC Article 408 and IEC 61439.
- Executed internal and external **lighting systems** with energy-efficient fixtures and **lighting control panels (LCPs)** using DALI, relay-based systems integrated with BMS.

UPS Systems, Capacitor Banks & Power Quality:

- Installed and tested **UPS systems** for backup power with battery bank configuration and load testing.
- Installed **capacitor banks** for power factor correction, including setting automatic switching sequences and verifying power quality with energy analyzers.

Cabling, Termination & Detailed Testing:

- Performed **cable pulling, dressing, glanding, and termination** for XLPE, PVC, and armored cables up to 630 sq.mm ∅.
- Conducted pre-commissioning and final testing in accordance with **IEEE 400, NEC 310, IEC 60228, and IEC 60502**.

Extra Low Voltage Systems (ELV):

Fire Alarm Systems:

- Designed, installed, tested, and commissioned **addressable and conventional fire alarm systems** conforming to NFPA 72 and Saudi Civil Defense requirements.
- Conducted **loop testing, device programming, and end-to-end signal verification** using manufacturer tools (e.g., Notifier, Siemens, Honeywell).
- Integrated fire alarm with HVAC shutdown, FA interface panels, and elevator recall systems.

CCTV Surveillance:

- Deployed high-resolution **IP CCTV systems**, including camera focusing, NVR configuration, and **video analytics calibration**.
- Conducted **field of view validation, network speed tests, and frame rate optimization** per MOI-SSD guidelines.

Access Control & Security Systems:

- Installed and configured **multi-door access control systems** including biometric, RFID, and smart card readers.
- Verified access logic, alarm triggers, and conducted functional testing with audit trail reporting.

Structured Cabling Systems:

- Installed and tested Cat6/6A and fiber optic cabling infrastructure.
- Conducted **Fluke DTX/DSX certification, OTDR testing, and fiber end-face inspection** as per ISO/IEC 14763-3.

Riyadh Region Municipality HQ Office

2023 – 2024

Client: Riyadh Region Municipality

Position: Electrical Design Engineer

Scope:

Site Execution & Supervision:

- Supervised daily site activities related to electrical systems including conduit installation, cabling, panel erection, lighting, and termination works.
- Ensured all installations complied with approved shop drawings, method statements, and project specifications.

WIR Preparation & Submission:

- Prepared and submitted **Work Inspection Requests (WIRs)** for completed electrical works as per project ITPs.
- Coordinated with QA/QC engineers and consultants for scheduled inspections.
- Addressed punch list items, ensured rectification, and resubmitted for approval to avoid delays in project milestones.

Quality Assurance & Coordination:

- Collaborated closely with the **QA/QC team** to ensure compliance with project quality standards and applicable codes (NEC, IEC).
- Participated in internal quality audits and maintained inspection logs, snag reports, and site quality documentation.

Technical Documentation & Reporting:

- Developed and maintained technical documentation including **daily progress reports, site material delivery logs, and redline/as-built drawings.**
- Assisted in preparing **method statements, material submittals, and correspondence with consultants** for technical clarifications (TQ/RFI).
- Compiled data for **O&M manuals** and final project handover documentation.

Drawings & Coordination:

- Reviewed and interpreted **shop drawings, schematics, and single-line diagrams** to guide the execution team.
- Coordinated with civil, architectural, and mechanical teams to avoid service clashes and ensure smooth project integration.

Material Handling & Logistics:

- Verified delivery of materials on-site, conducted quantity checks, and ensured proper storage as per manufacturer guidelines.
- Followed up with procurement and vendors for long-lead items and material approvals.

Testing & Pre-Commissioning Support:

- Assisted in **IR testing, continuity checks, and point-to-point verification** for LV systems and ELV cabling prior to handover.
- Coordinated with the commissioning team to ensure smooth transition from installation to live testing phase.



PROFESSIONAL EXPERIENCE

Electrical Site Engineer

Green Riyadh Contracting . Co

Project: SAMI Land Industrial Complex

Client: Saudi Arabian Military Industries

Consultant: ICPM Group

Responsibilities:

- (1) Managing and supervising Site Activities.
- (2) Checking technical designs and drawings and make sure they are properly followed at the site.
- (3) Preparing daily weekly and monthly progress report of work and equipments.
- (4) Preparing monthly take-off sheets for BOQ.
- (5) Following ITPS and method Statement at Site.
- (6) Checking Drawings and Designs to ensure they are followed at site.
- (7) Preparing quantities of material that required at site.
- (8) Making RFI (Request for Inspection) and MIR for Inspection.
- (9) Making corrective action reports for observations related to Electrical Work at site.
- (10) Inspect all material at site.
- (11) Attending meeting with clients and main contractors.
- (12) Keeping records of all reports and documents related to QA/QC and Electrical Work.
- (13) Performing pre inspection of materials and installed cable managemnet systems and terminations before consultant visits.
- (14) Following up with main contractors for materials like cable trays, ledders, trunks, cables, pannels, transformers, ATs, Generators etc.
- (15) Attending internal meetings with owners.

2024 – present
Riyadh, Saudi Arabia

Electrical Design Engineer

ArchiSite

Project: Riyadh Region Munciplity HQ Office

Client: Riyadh Region Munciplity

Consultant: Mission Consultant Engineering

Responsibilities:

- (1) Create detailed electrical designs for systems, components, and layouts.
- (2) Select appropriate electrical equipment and materials based on design requirements and cost-efficiency.
- (3) Prepare specifications for electrical equipment, ensuring compliance with codes, regulations, and standards (e.g., IEC, NEC, local codes).
- (4) Work closely with project managers, architects, and other engineers to integrate electrical systems into overall project designs.
- (5) Prepare technical reports, design documentation, and as-built drawings.
- (6) Work with architects, project managers, and other engineering teams to incorporate low current systems into building designs.
- (7) Oversee the testing and commissioning of low current systems, ensuring proper functionality, performance, and integration with other building systems.
- (8) Prepare detailed design documents, including system layouts, specifications, and commissioning reports.
- (9) Maintain as-built drawings and documents for future maintenance and upgrades.
- (10) Provide ongoing support during installation, maintenance, and operation of low current systems.
- (11) Liaise with clients and stakeholders to understand their requirements and provide technical support during the design and installation phases.

2023 – 2024
Riyadh, Saudi Arabia

EDUCATION

Bachelors in Electrical Engineering

University of Poonch Rawalakot

Rawalakot,
Azad Kashmir, Pakistan

FSc Pre-Engineering

AJK Board of intermediate, Mirpur

Mirpur, Pakistan

Matriculation

AJK board of Higher Secondary Education,

Mirpur, Pakistan

SKILLS

Micro Soft Office Suite | Electrical Design | Site Supervision | AutoCAD | Ability to work Under Pressure |
Site Management | Implementation of Method Statement | Dialux EVO | Team Work | Problem Solving |
Testing & Commissioning (IR Testing, Continuity, Torque Check, FAT/SAT) |
Power Systems (MDB, SMDB, Capacitor Banks, UPS, Cable Sizing) |
Low Current Systems (Fire Alarm, CCTV, Access Control, BMS) | Cabling & Termination (XLPE, Fiber Optic, Cat6/6A) |
Compliance & Standards (NEC, IEEE, IEC, NFPA, SBC)

LANGUAGES

English









Urdu/Hindi



Arabic



CERTIFICATES

Practitioner's Approach to Power Distribution & Automation  , Engineering Project Management :Initiating and Planning  ,
Electrical Power Distribution  , Safety in the Utility Industry  , Electrical Power Generation  , Product Development Using
AutoCAD 

DECLARATION

I hereby declare that the above particular are true to the best of my knowledge and belief, if given an opportunity, I assure you that I shall endeavor my best in discharging my duties to the entire satisfaction of my superiors. Further original testimonies will be provided on demand.



Ammar Pervez
Riyadh, Saudi Arabia