

# Omran Ali Musa Ali

## Electrical Engineer

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Address: Al-Khobar – Saudi Arabia

### Career Summary & Objective

Experienced Electrical Engineer with over 12 years of expertise. My expertise extends to Project and Risk management, designing, supervising, testing, commissioning, and maintenance of electrical systems. Proficient in accurately creating technical designs and specifications for Low Voltage (L.V), Low Current (L.C) systems and base entry for Medium Voltage design (M.V), Well-versed in performing calculations, studies, planning, scheduling, and equipment selection. Familiar with SBC 401, NFPA 70 (NEC) and NFPA 72 codes.

Skilled in quantity take-offs, pricing, cost estimation and Tendering preparation (both technical and financial files) using Etimad portal and base entry for other portals.

As a multi-tasker, problem-solver, and team player, I thrive under pressure and adapt to changing scenarios with attention to detail, delivering high-quality results. My main goal is to utilize and expand my knowledge and skills in challenging assignments that contribute to the company's achievements and growth.

### Technical and Software Skills:

Electrical Design, Planning, Risk Management, Project Management, Quantity Take-Offs, Cost Estimation, Tendering (Etimad Portal), AutoCAD, DIALux 4.13, DIALux evo, Ecodial, Primavera P6, Primavera Risk Analysis software, Bluebeam, Microsoft Office Package: Proficient in Excel, Word, PowerPoint, Outlook, and MS Project.

### Professional Experiences

#### **Senior Electrical Engineer**

**Ahmed Al-Mousa Eng'g Consultants,** Saudi Arabia

May 2024 - Present.

- Reviewed and approved contractors' materials submittals, shop drawings
- Supervised and administered a project involving 472 villas, distributed among three contractors. Managed requests for information (RFIs) to ensure adherence to approved designs and quality standards. Ensured strict compliance with project specifications, local regulations, and international codes while addressing and resolving any on-site design issues.
- Highlights any violations to construction or engineering related issues on site through issuance of site instructions and NCRs.
- Provided site reports and highlighted any issues that arose on-site and offered construction administrative support to the Project Manager.

#### **Tenders Engineer**

**Silicon Trading & Contracting Co.,** Saudi Arabia

Jan 2024 - May 2024.

- Review of project specifications, drawings, documentation and gathering the essential information for bid submissions to grasp project requirements effectively.
- Collaborated closely with procurement team to secure competitive pricing for project components.
- Prepared accurate cost estimates and budgets for labor, materials, equipment, and other project expenses.
- Developed and submitted comprehensive bid proposals in accordance with specifications, client requirements, Etimad & other project's portals instructions.

#### **Technical Support and Tenders Engineer**

**Arabian Co. Protection & Strengthening,** Saudi Arabia

Nov 2021 - Jan 2024.

- Review of project specifications, drawings, documentation and gathering the essential information for bid submissions to grasp project requirements effectively.
- Collaborated closely with procurement team to secure competitive pricing for project components.
- Prepared accurate cost estimates and budgets for labor, materials, equipment, and other project expenses.
- Developed and submitted comprehensive bid proposals in accordance with specifications, client requirements, Etimad & other project's portals instructions.

#### **Electrical Project Engineer**

**Arabian Co. Protection & Strengthening,** Saudi Arabia

Dec 2020 - March 2023.

- Oversaw the implementation of CCTV project, Cathodic Protection project and Skimming system project at various sites of SWCC Plants (SWCC Shuqaiq Pipelines plant, SWCC Al Khafji plant & SWCC Ras Alkair plant).
- Oversaw the implementation of Firefighting network extension & fire walls and fire barriers at Dammam Maternity and Children's Hospital.
- Supervise site activities, installation, testing, commissioning and collaborated effectively with teams to achieve project objectives.
- Conducted regular inspections to identify and ensure strict compliance with project specifications and quality standards & resolve any arise issues promptly.

#### **Electrical Design Engineer**

**GSK CONTRACTING,** Khartoum, Sudan

Nov 2019 - Nov 2020.

- Developed technical and Detailed designs for low voltage & Low Current systems including lighting, receptacle distribution, and power for mechanical systems, earthing systems, sized backup power systems like DG sets and UPS, intrusion alarm, fire alarm, CCTV, access control, Intercom system ...etc.

- Conducted technical design expertise for diverse projects including swimming pools electrical designs, residential, commercial and infrastructure's design for underground cables networks.
- Carried out studies and calculations for earthing systems, cable sizing, load calculations, drop voltage, short-circuit calculations, provided accurate mounting and installation drawings to facilitate implementation and to optimizing design efficiency, emphasizing system reliability, functionality and grant system maintainability after execution.
- Reviewed and approved contractor submittals, shop drawings, technical documentation and ensured compliance with project requirements and standards.

### **Electrical Design Engineer**

**Noon Consulting Co. Ltd, Sudan**

May 2015 - Sep 2019.

- Developed technical & detailed designs for low voltage and low current systems, ensuring alignment with project requirements specifications.
- Carried out studies and calculations for earthing systems, cable sizing, load calculations, drop voltage, and short-circuit calculations, sized backup power systems like DG sets and UPS to optimizing design efficiency, emphasizing system reliability and functionality.
- Specified electrical materials and generated detailed bill of materials to streamline procurement and bidding processes.
- Provided accurate mounting and installation drawings to guide and facilitate implementation of electrical systems, and grant system maintainability after execution.
- Reviewed and approved contractor submittals, shop drawings and the As-built drawing, offered construction administrative support to the project manager, managing requests for information (RFIs) to ensuring strict compliance with local regulations, international codes, and safety standards.
- Conducted regular on-site inspections to verify adherence to approved designs and quality standards, promptly identifying and addressing any deviations.
- Utilized data analysis techniques to drive continuous improvement for future design processes and projects outcomes.

### **Electrical Engineer “Internship”**

**Noon Consulting Co. Ltd, Sudan**

Feb 2015 - May 2015.

- Assisted and provided technical design support, focusing on L.V and L.C systems such as (lighting, Power system, SLD, Intrusion system, FA system, CCTV, Access Control system, SMATV, MATV and Data system).
- Analyzed and calculated various electrical parameters, including earth systems, voltage drop, short-circuit calculations, electrical cable sizing, and sizing of backup power systems (GS & UPS).
- Supported in the supervision and inspection of site works to ensure compliance with project specifications.

### **Electrical Maintenance Engineer**

**Ministry of Urban Planning & Public Services, Sudan**

Aug 2014 - Feb 2015.

- Supervised Maintenance and facility section, providing guidance and support, ensuring smooth and reliable operations of facilities “power supply, generators, lighting, Air Conditioning and loads distribution” for Government secretariat head building & monitored daily power usage, prepared monthly reports for analysis.
- Conducted troubleshooting and maintenance tests, resolving complaints promptly.
- Developed maintenance procedures and executed preventive maintenance schedules for efficient operations and kept Assets in good conditions.
- Handled procurement of spare parts and generator fuel. And managed electricity bill payments.

### **Tutor**

**University Of Blue Nile, Sudan**

Aug 2012 - July 2013.

- Provided administrative support and delivered engaging lectures to diverse student groups.
- Developed tutorial materials and organized practical activities for courses including Electrical Machines and MATLABb Programming.
- Contributed to the evaluation and selection of students' graduation projects.

### **Education:**

- B.Sc. (Honors) in Electrical Engineering, Discipline (Power & Machines)  
Sudan University of Science & Technology (SUST), March 2012

### **Membership of Professional Associations**

- SCE Saudi Council for Engineers / Membership Grade: “Professional”.
- Sudanese Engineering Council / Membership Grade: “Graduate”.

### **Professional Development Courses & Certificates:**

- **Saudi Electrical Code SBC 401**
- **Building Electrical System Design & Drafting**
- **Integrated Fire Alarm & Fire Fighting System Training**
- **Technical Report Writing Workshop**

### **Languages**

- Arabic: Native
- English: V. Good

### **References**

- Available upon request