

Marthad Azhri

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● ABOUT ME

Highly skilled MEP Engineer with a strong educational background in Electrical Power Engineering and **3 years of hands-on experience in MEP system design, shop drawings, and project implementation.** Specialized in electrical installations, system maintenance, and commissioning activities with solid expertise in diesel generator setups, ATS, and UPS system integration. Additionally, possess **1 year of practical experience in solar energy systems**, supporting the delivery of reliable and energy-efficient solutions. Proficient in designing and supervising MEP works across industrial, residential, and agricultural sectors. Strong capabilities in classic control systems, PLC programming, troubleshooting, and coordinating site execution to ensure full compliance with standards, safety procedures, and project schedules. Advanced user of AutoCAD, Dialux Evo for lighting design, and AutoFluid for plumbing schematics. Known for producing accurate technical documentation, optimizing system performance, and ensuring seamless installation and commissioning processes.

● WORK EXPERIENCE

SENIOR MEP ENGINEER – WAHET ALKHAIR CONTRACTING COMPANY (ERKAZ) – 1 Dec 2023 – Current – RIYADH, SAUDI ARABIA

- Led the complete design and execution of MEP systems for **50+ luxury villas, 2 royal palaces**, and a **2700 m² high-end residential building**, ensuring superior quality, reliability, and operational efficiency.
- Developed detailed MEP shop drawings including load calculations, single-line diagrams, coordination layouts, and riser diagrams for electrical and plumbing systems aligned with project requirements.
- Ensured full compliance with **Saudi Building Codes**, project specifications, and international standards such as IEC and NFPA in both design and implementation phases.
- Managed and supervised on-site installation of all MEP systems, coordinating effectively with site engineers, technicians, and subcontractors to meet performance and schedule targets.
- Conducted routine site inspections and quality assurance checks, implementing solutions to resolve technical challenges during construction.
- Facilitated cross-disciplinary coordination, eliminating clashes between MEP, civil, and architectural systems through technical meetings and design revisions.
- Provided technical leadership, **training new graduates**, and **mentoring new employees** to ensure team competency and alignment with design intent.
- Oversaw preparation of **as-built drawings**, O&M manuals, testing reports, and complete handover documentation in accordance with client and consultant requirements.
- Maintained continuous communication with consultants and client representatives, presenting progress updates and proposing technical improvements throughout the project lifecycle.

ELECTRICAL SITE ENGINEER – ADVANCED CONSTRUCTION POWER – 4 Sep 2022 – 30 Nov 2023 – AL-MAJMAA, SAUDI ARABIA

- Supervised the construction and MEP works for **seven administrative buildings**, including Gate House Permission Main Gate, Cadet Waiting Facility, Logistics Wing HQ, Warehouse, and Mosque.
- Managed the full procurement cycle — from quantity take-off and material demand planning to on-site delivery and inventory control.
- Performed detailed quantity surveying for Power, Lighting, Low Current, Earthing, and Lightning Protection systems to ensure accurate material estimation.
- Coordinated with suppliers to obtain quotations, negotiate pricing, and secure cost-effective procurement deals.

- Prepared technical material submittals and purchase orders in compliance with project specifications, standards, and financial constraints.
- Monitored procurement schedules, tracked delivery milestones, and expedited supplies to maintain smooth workflow and meet project deadlines.
- Collaborated with logistics teams to plan transportation and ensure timely delivery of materials to the site.
- Conducted rigorous quality inspections upon receiving materials to confirm adherence to approved specifications and resolve any discrepancies.
- Maintained accurate procurement documentation including invoices, receipts, and stock records for auditing and reporting purposes.
- Achieved **15% cost reduction** in procurement through effective negotiation and supplier management while maintaining quality benchmarks.
- Enhanced procurement lead times by **25%** by implementing efficient supply chain management practices.
- Applied proactive project management strategies that contributed to project completion **10% ahead of schedule**.
- Ensured compliance with HSE standards, achieving **zero accidents** throughout the construction period.

MAINTENANCE ENGINEER – MENDARNA ELECTRICAL – 16 Jan 2021 – 2 Apr 2022 – KHARTOUM, SUDAN

- Planned and performed both predictive and emergency maintenance for power and control systems at NILE PETROLEUM OIL COMPANY gas stations.
- Supervised installation and commissioning of solar PV systems and diesel generators as alternative power sources for **10+ gas stations**, ensuring reliable and efficient operation.
- Executed maintenance, troubleshooting, and repair for electrical power systems, control panels, and fire-fighting systems to maintain maximum uptime and safety.
- Monitored system performance and analyzed operational data to recommend technical improvements and enhance energy efficiency.
- Supported continuous improvement by participating in research and development efforts to upgrade existing systems and introduce new technologies.
- Delivered on-site and remote technical support to resolve power system issues and ensure uninterrupted operations.
- Prepared detailed maintenance logs, inspection reports, and technical documentation for management review.
- Ensured compliance with electrical codes, MEP standards, and safety regulations during installation and maintenance activities.
- Performed load calculations and prepared sizing requirements for diesel generators and solar energy systems for various applications.
- Installed and configured ATS and UPS systems to enhance power reliability in solar and diesel generator installations.

● EDUCATION AND TRAINING

1 SEP 2013 – 14 DEC 2021 Khatroum, Sudan

DEGREE OF BACHELOR - IN ELECTRICAL POWER ENGINEERING Alzaeim Al-Azhari University

Website aau.edu.sd | Field of study ELECTRICAL ENGINEERING

● LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

Other language(s):

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

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

● **SKILLS**

AutoCAD | Dialux Evo | Autofluid | Revit | ETAP power system analysis | Microsoft Word | Microsoft Excel | Microsoft Powerpoint

● **DRIVING LICENCE**

Driving Licence: B

Driving Licence: AVAILABLE

● **VEHICLE**

AVAILABLE

● **GENERAL SKILLS**

Leadership

- Ability to work effectively with **multinational teams** in diverse work environments.
- Strong **analytical and problem-solving skills** for troubleshooting complex MEP and electrical issues.
- Excellent **communication, coordination, and teamwork** abilities.
- Leadership and **mentorship skills**, including training new graduates and onboarding new employees.
- Time management and **project coordination** to meet deadlines and ensure quality delivery.
- Attention to detail and ability to maintain **accurate technical documentation**.
- Adaptability and **quick learning** to implement new technologies and standards.