

Mohamedalhassan Ali Ahmed Mohamedalhassan

Electrical Engineer | Passionate Innovator | Problem Solver

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Summary of Qualifications

For over 13 years, I've thrived in the electrical field, starting as a hands-on electrician and evolving into a skilled engineer. My passion lies in the intricate dance of electrons, where I find purpose in designing, developing, and implementing innovative electrical systems that power our world.

With a Bachelor's degree in Electrical and Electronics Engineering and a decade of experience as a Foreman Electrician, I've honed my skills in installation, maintenance, and troubleshooting of electrical systems and equipment. I'm proficient in Microsoft Office Suite, SAP, and various engineering software, enabling me to integrate technology into my work seamlessly.

My expertise extends to variable frequency drives, power electronics, control electronics, electrical circuit design, analysis, and troubleshooting. I possess a deep understanding of electrical systems, components, and equipment, and I'm adept at reading and interpreting drawings, blueprints, schematics, and electrical code specifications.

I believe in continuous learning, constantly expanding my knowledge through online courses, professional development workshops, and industry publications. This commitment to staying at the forefront of electrical engineering has allowed me to make significant contributions to my previous employers.

EDUCATION

Bachelors Electrical and Electronics Engineering

Oct 2015 - Dec 2020

Nile Valley University • Atbara, Sudan

Electrical Diploma

Sep 2006 - Oct 2009

Sudan University of Science & Technology • Khartoum, Sudan

- Google Project Management certificate
- Pumps, Compressors, and Meters Sudanese Petroleum Corporation Petroleum Training Center | Sudan NOV.2008
- Programmable Logic-Control (PLC) Cairo University | Cairo Jan.2009

Work Experience

Electrical Engineer

Berber Cement Company Ltd, Berber, Sudan | Jan 2021 – 2023

As the guardian of electrical efficiency at the cement mill, I spearheaded maintenance procedures that reduced downtime by 15%, saving the company valuable production hours.

My passion for innovation led me to design a new power distribution system that slashed energy consumption by 10%, demonstrating my commitment to sustainability.

Troubleshooting electrical faults became my forte, as I meticulously diagnosed and resolved complex issues, ensuring uninterrupted operations.

My expertise extended to maintaining HT & LT Panels, Lightning Arresters, microprocessor-based relays, LT compressors, and spare parts, ensuring the smooth functioning of the entire electrical infrastructure.

Electrical Technician

Berber Cement Company Ltd, Berber, Sudan | Mar 2010 - Dec 2020

As a shift senior electrician, I embraced the challenges of troubleshooting faults and maintaining electrical systems, ensuring the safety and efficiency of the Berber cement factory.

My hands-on experience shone through as I supervised the installation of power generation and conditioning systems, guiding my team to success.

With meticulous attention to detail, I repaired and replaced parts on machines and systems, including motors, VFDs, relays, timers, controllers, and PLC controls, keeping the factory humming.

My expertise extended to underground wiring and cables, electrical controls, panel boxes, voltage testing, load management, and hazardous location considerations.

As the custodian of electrical engineering records, I maintained organized documentation, ensuring traceability and compliance.

Skills and Abilities

- **Technical Skills:** Extensive knowledge of variable frequency drives, power electronics, control electronics, electrical circuit design, analysis, troubleshooting, electrical systems, components, equipment, drawings, blueprints, schematics, electrical code specifications, preventive maintenance programs, automatic control systems, and pneumatic systems.
- **Computer Skills:** Proficient in engineering software for design, simulation, and analysis, Microsoft Word, Excel, PowerPoint, and SAP.
- **Communication Skills:** Effective communication for team collaboration, technical presentations, and client interaction.
- **Project Management Skills:** Experienced in project planning, organization, resource coordination, data interpretation, and system evaluation.
- **Teamwork and Collaboration:** Proficient in multidisciplinary team environments, coordinating with engineers, technicians, and professionals.
- **Continuous Learning:** Committed to staying updated with advancements in electrical engineering through ongoing education and professional development.

I am eager to bring my passion, expertise, and problem-solving skills to your organization, contributing to innovative electrical solutions that drive efficiency, sustainability, and progress.

Awards and Honors

Ideal Employee Award for compliance with attendance and safety laws, Berber Cement Company Ltd, 2022

Volunteer Work

Member, Workers' Charitable Fund, Berber, Sudan: Supporting workers in the Berber cement factory, embodying my commitment to community and social responsibility.