Ahmed Mustafa

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# Professional Summary

Dedicated and proficient Service Engineer with a demonstrated history of executing routine services at prescribed intervals, diagnosing and swiftly resolving complex issues, and maintaining a diverse range of machinery. Skilled in the meticulous testing and maintenance of Automatic Voltage Regulators (AVR) and Rotating Diodes, ensuring seamless operations of critical components. Adept at configuring and managing Deep Sea Controller sensors to enable precise monitoring and control of systems. Extensive experience working with industry-leading brands such as CATERPILLAR, FGWILSON, and PERKINS, showcasing an adaptable proficiency in addressing the unique needs of different equipment. Possessing a keen eye for detail and a commitment to ensuring optimal equipment performance, I am equipped to deliver exceptional service, effectively contributing to the maintenance and enhancement of systems while ensuring customer satisfaction.

# Experience

# Solar System Engineer- Freelancer – (doha – qatar)

## August 2023 – Present

* Test or evaluate photovoltaic (PV) cells or modules.
* Review specifications and recommend engineering or manufacturing changes to achieve solar design objectives.
* Perform thermal, stress, or cost reduction analyses for solar systems.
* Develop standard operation procedures and quality or safety standards for solar installation work.
* Design or develop vacuum tube collector systems for solar applications.
* Provide technical direction or support to installation teams during installation, start-up, testing, system commissioning, or performance monitoring.
* Perform computer simulation of solar photovoltaic (PV) generation system performance or energy production to optimize efficiency.
* Develop design specifications and functional requirements for residential, commercial, or industrial solar energy systems or components.
* Create plans for solar energy system development, monitoring, and evaluation activities.
* Create electrical single-line diagrams, panel schedules, or connection diagrams for solar electric systems using computer-aided design (CAD) software.
* Create checklists for review or inspection of completed solar installation projects.

# Diesel generators service engineer- DIESEL GENERATOR COMPANY LTD – (Khartoum – Sudan)

## Mar 2023 – Aug 2023

* It’s the executive agent for FG Wilson brand in Sudan.
* Maintained different brands of generators from 48kw to 2,500kw.
* Troubleshooted and made repairers to the generator or to Automatic transfer switch.
* Documented and reported each repair in company log book completed work orders and maintained contact with the customer at all times.
* Mounted and fastened POWERWIZARD and configure DEEPSEA control panels and sensors.
* Responded to corrective maintenance requests and alarms in a timely manner.
* Maintained spare equipment and parts and managed inventory.

# Diesel generator and Solar system Engineer Trainee -BSHASHA COMPANY FOR CONTRACTING LTD- (Khartoum-Sudan)

## Jan2023-Mar2023

* Routine service schedules.
* Installation and maintenance different sizes of PERKINZ genset.
* Replacement of damaged parts.
* Handled reports after service.
* Providing guidance and support regarding generator operation and maintenance.
* Solar system design and installation.
* Inverters size selection.
* DB installation.
* Conducting tests and commissioning the solar systems to ensure proper functionality and performance.
* Maintaining records, documentation, and reports related to design, installation, maintenance, and performance of solar systems

# Diesel generator service Engineer Trainee – SUTRAC - (Khartoum - Sudan)

## July 2022– sep2022

* It’s the executive agent for CATERPILLAR brand in Sudan.
* Installing and maintaining diesel generators to ensure their proper operation.
* Diagnosing issues, conducting repairs, and replacing faulty components.
* Regularly testing and inspecting generators for potential problems or maintenance needs.
* Maintaining detailed records of maintenance, repairs, and service schedules.
* Being available for urgent call-outs to address critical generator issues

# Site Engineer-OTHMAN CONTRACTING COMPANY-(Khartoum-Sudan)

## Dec2021-june 2021

* Load estimation.
* Circuit breakers size selection.
* Standard operation procedures and quality.
* Distribution boards design and installation
* Autocad
* Shop drawings
* As built drawings design

# Education

# The honours degree in bachelor of electrical engineering -Sudan University of Science and Technology- (2014-2021).

# Course

* Generator – Exemplar Centre for engineering and career development –

(Apr 2023)

* Electrical Installations – Exemplar Centre for engineering and career development – (Mar 2022)

# Skills

### *Technical Skills:*

Load calculation - Photovoltaic system – Site assessment – Construction documents – Design softwares – Ms office – Energy efficiency – diagnosing and repairing mechanical and electrical issues – Safety protocol – AVR testing – Programming controllers – Routine services – Reading Technical manuals – knowledge of wiring diagram – Special tools handled – Technical reports – Customer service and administrative processes- AutoCAD.

* ***Soft Skills:***

Problem solving – Analytical Skills – Flexibility – Analytical Thinking – Achievement Orientation – Commitment – Integration Analysis – Leadership – Team Player – Written & Verbal Communication – Technical Writing – Active Listening – Information Seeking – Decision Making – Quick Learning – Facilitation & Negotiation – Collaboration – Physical ability – Work under pressure.

# Languages

* Arabic: Mother tongue.
* English: Advanced.

### References Available on request.