

# OSAMA ELSAMMANI

## ELECTRICAL ENGINEER

Permenant Address : Khartoum, Sudan

Current Address: Kampala, Uganda

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10/03/1984

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### SUMMARY

Detail-oriented Electrical Engineer with over 10 years of experience in designing and implementing electrical power distribution systems for buildings and facilities.

Comprehensive Project Management experience involving Power Distribution, and Facility Construction. Possess extensive experience with Government and Commercial projects. familiar with international Electrical codes and regulations (BS 7671, IEC..).

### SKILLS

- Enjoy challenges in the design, installation work of multifaceted electrical systems.
- Troubleshooting skills to look at a system, determine what has gone wrong, and recommend the most cost-effective course of action.
- Familiarity with various softwares such as Autocad software, ABB DOC and Ecodial and Dialux.
- Electrical systems testing and commissioning

### EDUCATION

- UNIVERSITY OF KHARTOUM - FACULTY OF ENGINEERING AND ARCHITECTURE** Oct 2001 to Sept 2006  
Bachelor of Science (honour) degree in Electrical Engineering

### EXPERIENCE

- Tekno Consultancy, Sudan** June 2021 - Up to date  
Senior electrical engineer in the CM Department
  - Engineering and planning electrical power systems for multiple buildings and facilities projects including hospitals, high-rise offices, educational facilities, and other commercial projects.
  - Designing specification of power and control systems, system layouts, load calculations, equipment sizing, and selection, performed calculations of lighting systems .
  - and participated in monitoring & control budget and schedule with project teams.
- BEDASH Co - Green Project Power plant , Sudan** Jan 2023 - March 2023  
Electrical engineer (part-time job)
  - Supervised the Installations of 33KV GIS switchgear.
  - Directed testing activities to make sure projects met all essential specs for the followings:
    - Transformer (insulation, winding &ratio).
    - Switchgear (insulation resistance before and after high voltage, circuit breaker tripping and relay injection).
    - DC battery tes
- Tekno Consultancy, Sudan** Dec 2018 - June 2021  
Project electrical engineer in National Nile Club Project
  - Assessed design and directed the installations of:
    - Low voltage power systems ( lighting and small power).
    - Low Current systems (CCTV, Security, MATV, Fire alarm ...).
    - Building management system (DDC ,field devices and automation stations).
    - Power and control works for HVAC system (chiller, pumps, cooling towers, Fans VFD's).
    - Water treatment system power & control works (pumps star-delta control panels).
    - Water supply pumps electrical works (pumps and VFD's).
    - Gas detection system electrical works.
    - Garbage shut system electrical works.
    - Elevator and escalator electrical works.
  - Witnessed and approved the testing and commissioning of all electrical systems.
  - Exercised a proactive approach in the prevention of any potential issues by interfacing with QC, Construction, Field Engineering, Subcontractors and Client as required.

- followed-up and approval of closeout of punch items.

• **Target construction, Sudan** March 2017 - Dec 2018  
 Electrical engineer
 

- Prepared technical and financial offers for Medium Voltage network projects.
- Managed the installations of medium and low voltage network projects (poles, cable and transformers).
- Approved the Subcontractors electrical works payment.

• **Noon consultant, Sudan** March 2015 - March 2017  
 Electrical design engineer
 

- Designed electrical systems and components to meet specifications and clients requirements.
- Developed, tested, and evaluated electrical systems and components
- Assessed and selected electrical components and equipment.
- Carry out Coordinate quality checks on all installations.
- Participated in tender analysis

• **SIEG for advance business, Sudan** April 2012 - March 2014  
 Technical office electrical engineer
 

- Reviewed Design, Prepared Shop Drawings and Supervised the installations of:
  1. Medium & low Voltage Power System distribution and protection network (Main supply, backup power supply, lighting system, small power system).
  2. Power for mechanical equipments (chiller, pumps, cooling tower, firefighting pumps, water supply pumps, drainage pumps...).
  3. Low Current systems including (CCTV, DATA, Access control, Fire alarm & SMATV).

• **Noon consultant, Sudan** Oct 2008 - March 2012  
 Electrical engineer
 

- Designed electrical systems and components to meet specifications and clients requirements.
- Developed, tested, and evaluated electrical systems and components
- Evaluated and selected electrical components and equipment.
- Carried out Coordinate quality checks on all installations.
- Participated in tender analysis.

• **National electricity corporation, Sudan** Sep 2006 - Jun 2007  
 communication Engineer at a Telecommunications workshop
 

- Programmed and repaired Radio telecommunication Devices (VHF radios).
- Supervised the Network system.
- SDH/PDH Training.

## PROJECTS

- **All banks of Khartoum's new image branches (commercial buildings) , Sudan**  
 Designed and Supervised the installations of low voltage systems and low current systems.
- **Nile national club project, Sudan**  
 Supervised the installations of all electrical systems for swimming pool, Spa, cinema, food court, musical fountain and other facilities.  
 Power details: 13 MVA  
 Contain : 6 step down transformers Ring and 5 Gen sets
- **Alkasswa factory project , Sudan**  
 Prepared shop drawings for all low voltage systems in slab stages.  
 Power details: 2 MVA  
 Contain : 6 step down transformers Ring and 5 Gen sets
- **Abo hamed agricultural project power plant, Sudan**  
 Partened with team in installation of cables works , GIS switchgear installations and witnessed the testing and commissioning of transformers, cables and switchgear.  
 Power details: 5 MVA  
 Contain : 5 step up transformers and 5 Gen sets.

## LANGUAGE

- Arabic as native language

## REFERENCE

- **Mohammed abbas**  
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Renewable energy manager  
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- **Arbab Abu shouck**  
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## ACHIEVEMENTS & AWARDS

- Introduction to renewable energy online course from Solar Energy international
- Distribution 1,2,3 overview online course from Schneider University.
- Fire alarm course in hochiki Europe UK
- Next-generation network courses at Huawei University