

MOSHOOD YAKUB OLALEKAN

MINI-GRID ENGINEER | TECHNICAL SITE LEAD | PROJECT COORDINATION

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PROFESSIONAL SUMMARY

Mini-grid engineer and technical site lead with 6+ years of experience delivering off-grid generation, distribution, smart metering, customer connection, and site commissioning projects across Nigeria. Strong record in team supervision, site execution, safety compliance, stakeholder coordination, community engagement, and as-built close-out. Applied experience in QGIS-based distribution network design, load analysis, data collection, and data cleaning, with growing capability in PVsyst, Excel, Python, ETAP, and HOMER Pro.

6+

years in site delivery
and mini-grid execution

10,000+

homes and productive users
supported on cluster delivery

10 sites

network extensions commissioned
within 5 weeks

CORE COMPETENCIES

• Project coordination and site supervision • Distribution network design using QGIS • Load analysis and customer demand assessment • Generation-site construction and commissioning • Smart metering and customer connections • Community engagement and stakeholder coordination	• Data collection platform setup and team leadership • Quality control, testing, and as-built records • Safety compliance, toolbox talks, and work permits • Material reconciliation and handover support • Technical tools: QGIS, Excel, Python, PVsyst, ETAP, HOMER Pro • Documentation: Microsoft Word and reporting
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PROFESSIONAL EXPERIENCE

THE SOLARSHOP LTD / EAUXWELL NIG LTD

Feb 2020 - Present

Technical Site Lead

- Lead day-to-day execution of mini-grid projects from site mobilization through commissioning, coordinating field teams, contractors, approvals, and workforce priorities.
- Monitor quality, safety, and schedule compliance across generation sites, HV/LV distribution works, metering, and customer connections.
- Coordinate client, stakeholder, safety, and ESG meetings; support NEMSA inspections, snag close-out, certification readiness, and handover activities.
- Prepare or support as-built records, material reconciliation, operator training, and project close-out documentation.
- Use QGIS for distribution network layouts and support load analysis, data logging, data cleaning, and customer registration workflows.

SELECTED PROJECT HIGHLIGHTS

REA Mini-Grids - Jibga, Ganji, Sabon Ruwa and Tukui | Distribution Network Design and Field Delivery | Nov 2025 - Present

- Produce distribution network designs in QGIS and perform load analysis for four REA mini-grid sites to support planning and field execution.
- Lead pole excavation assessments, hole excavation and pole erection oversight, distribution stringing, community engagement, data collection platform setup, customer-connection surveys, and safety compliance.

Kogi State Cluster - Ajitata, Ogede-Aji Ekpe, Atuma, Ogegume and Astawa | Technical Site Lead

- Coordinated site preparation, PV structure works, and installation of 1,052 PV modules plus inverters, PVDB, LVSG, SCADA, generator, transformers, and cabling.
- Supported commissioning of a five-site deployment serving 2,000+ homes, businesses, and productive users.

Ofosu South (400 kW) and Ofosu North (450 kW), Ondo State | Technical Site Lead / Safety Marshall

- Led generation-site and distribution activities including 300+ pole works at Ofosu South and 340+ pole works at Ofosu North, HV/LV stringing, transformers, earthing, and testing.
- Coordinated household assessment, metering, and customer connections for 2,000+ households at Ofosu South and 1,500+ at Ofosu North; supported NEMSA readiness, client visits, as-built records, and operator training.

Niger State Network Extensions - 10 Mini-Grid Sites | Technical Supervisor / Data Collection and Cleaning / Safety Marshall

- Delivered network extension activities across 10 sites, including site assessment, pole erection, LV stringing, stays and PMEs, smart metering, domestic earthing, and industrial testing.
- Commissioned all 10 sites within 5 weeks while managing field safety and data-cleaning workflows.

Earlier Project Delivery - Toto (350 kW), Saahi Nku (100 kW), Dukugi (145 kW), Maggi Bukun, Maggi Igenchi and Nantu

- Executed generation-site civil and electrical works, cable laying and termination, grounding, lightning protection, BESS/PCS installation, and final testing.
- Supported distribution build-out, customer connections, and commissioning on multiple Niger and Nasarawa state deployments.

LEADERSHIP PROFILE

- Coordinate multi-site workfronts, daily crew deployment, approvals, and execution priorities to keep field activities on schedule.
- Lead progress, safety, ESG, and stakeholder review meetings to align project teams, clients, and communities.
- Support inspection readiness, snag resolution, certification close-out, and operator handover across commissioned sites.
- Direct customer-registration and data-collection teams, combining field supervision with data quality and reporting discipline.

AYUSAT COMMUNICATION VENTURES

Sep 2013 - Dec 2017

Site Installer (Part-time)

- Supported electrical installation works and field activities, building early experience in site execution and practical electrical systems.

EDUCATION

Miva Open University B.Sc. Information Technology	2024–2027
Metallurgical Training Institute, Onitsha, Anambra State National Diploma (OND), Industrial Electrical Engineering	2019/2020 GPA: 3.76
Government Technical College, Saki, Oyo State Trade Test 2 and 3 (NABTEB)	2015/2016

CERTIFICATIONS AND SAFETY CREDENTIALS

- Health, Safety and Environment (HSE) Levels 1, 2 and 3 - World Safety Organization
- First Aid (CPR, AED) - Emergency Responses Africa and NHCPs
- GIS for Energy Access - Centre for Renewable Energy Research
- Full-Stack Renewable Energy Developer (FRED) Program
- ISO 45001:2018 - OCCAM Consult

References available on request