Chibuzor Ossai

Mechanical Engineer · Power, Solar & IT Infrastructure

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PROFILE

Mechanical engineering graduate (UNN, 2025) who sizes and installs solar power systems — panels, battery banks and hybrid inverters — and has paid experience running, securing and monitoring Linux servers. Combines hands-on power work with IT infrastructure skills. Looking for a data center technician or facilities engineering role.

EXPERIENCE

Solar Installer & Shop Owner — Self-employed, Ankpa, Kogi State 2024 – Present

- Assess each customer's power needs with a load audit, then size, supply and install solar systems: PV panels, battery banks, hybrid inverters and charge controllers.
- Largest install: 1.8 kWp array (6 × 300 W panels), 2 kVA hybrid inverter and 4 kWh lithium battery.
- Designed and installed a solar system with tubular batteries for a tailoring business that ran on a generator; the client reports saving about NGN 4 million in fuel over two years.
- Took over a registered electronics and solar shop in Nov 2025; grew stock value by about 33% in under a year while managing suppliers and inventory.

DevOps Engineer — Array Software Solutions Ltd, Remote Feb 2022 – Jan 2026

- Built and secured Linux servers with a reusable setup script covering updates, firewall, Docker, Nginx and monitoring.
- Set up Netdata monitoring and automatic service restarts after reboots to keep systems running.
- Set up separate production and QA logging so faults could be traced faster.
- Freelance (2024–2026): hosted a client's scheduled web-scraping bot on a cloud server.

EDUCATION

B.Eng, Mechanical Engineering — University of Nigeria, Nsukka (UNN) 2025

Relevant courses: MEE 569 Basic Principles of Direct Energy Conversion (PV system design, array sizing and installation, battery storage); Thermodynamics; Heat Transfer; Fluid Mechanics.

SKILLS

Power systems	Solar PV sizing and installation, battery banks (lithium and tubular), hybrid inverters, charge controllers, load assessment
Thermal & fluids	Thermodynamics, heat transfer, fluid mechanics (cooling fundamentals)
IT infrastructure	Linux servers, Docker, Nginx, firewalls and SSH hardening
Monitoring	Netdata, Prometheus, Grafana; logging and alerting
Tools	Bash, Python, Git
Languages	English (fluent)