

The logo features a stylized geometric design with a blue and yellow color scheme, resembling a house or a structural frame.

TECHORITE ENGINEERING SOLUTIONS

CONSULTING • MEPF DESIGN • PROJECT CONTROLS • COMMISSIONING • CONTRACTING

CORPORATE CAPABILITIES & MEPF ENGINEERING PROFILE

End-to-End Mechanical, Electrical, Plumbing, Fire Protection Engineering, Project Controls & Commissioning Solutions

STATEMENT OF QUALIFICATIONS & CAPABILITIES

CAC Business Name Registration No. 8804745 | TIN: 33505662-0001
22, Iyaniwura House, Opposite White House, Kajola, Obafemi Owode LGA, Ogun State
+234 813 104 1787 | olaonipekun01@outlook.com | Version 2.0 (2026 Edition)



1. EXECUTIVE SUMMARY & CORPORATE OVERVIEW

Corporate Overview: Techorite Engineering Solutions (CAC Registered BN: 8804745 | TIN: 33505662-0001) is a premier multi-disciplinary MEPF (Mechanical, Electrical, Plumbing, and Fire Protection) engineering consultancy, project management, building commissioning, and specialized contracting firm based in Nigeria. Established with a vision to deliver industrial-grade precision and rigorous engineering governance across commercial, industrial, healthcare, and residential developments, Techorite provides full-lifecycle engineering services from conceptual design and detailed BIM modeling to on-site project execution, commissioning, and facility optimization.

Core Operating Philosophy: At Techorite, we operate on the fundamental engineering principle that sustainable, safe, and cost-effective buildings are born out of meticulous planning, standards-compliant design calculations, flawless coordination, and rigorous quality control before physical site construction begins.

THE TECHORITE VALUE PROPOSITION: Techorite Engineering Solutions bridges the critical gap between complex engineering theory and practical site execution. We deliver Tier-1 industrial engineering standards to commercial and residential projects, eliminating costly site rework, schedule overruns, and operational downtime.

Strategic Direction & Core Values

- **Our Mission:** To deliver technically superior, energy-efficient, and code-compliant MEPF engineering designs, rigorous project controls, and flawless building commissioning that empower asset owners, main contractors, and institutions to execute capital projects with total clarity, certainty, and cost-efficiency.
- **Our Vision:** To become Sub-Saharan Africa's benchmark MEPF engineering consulting, commissioning, and project controls practice — renowned for uncompromised technical integrity, digital innovation, and capacity building.
- **Technical Integrity & Excellence:** Uncompromising adherence to international codes (ASHRAE, NFPA, BS 7671, CIBSE) and ethical engineering practice.
- **Precision & Predictability:** Delivering projects on schedule and within budget through advanced Critical Path Method (CPM) and Earned Value Management (EVM).
- **Knowledge Transfer:** Equipping emerging engineers and industry teams with world-class engineering and project controls skills.



2. COMPREHENSIVE 360° MEPF & ENGINEERING CAPABILITIES

Techorite Engineering Solutions offers an integrated, end-to-end portfolio of mechanical, electrical, public health, fire protection, project management, and commissioning services:

2.1 Mechanical & HVAC-R Engineering

- **Thermal Load Calculations:** Cooling and heating load modeling using Carrier HAP and ASHRAE RTS methodologies.
- **HVAC System Design:** VRF/VRV, Chilled Water Systems, AHUs, FCUs, and Precision Air Conditioning (PAC) for Data Centers.
- **Industrial Services Piping:** Hydraulic sizing and stress analysis for steam, chilled water, compressed air, and process wastewater piping networks.

2.2 Electrical Power & Low-Voltage (ELV) Systems

- **Power Reticulation & Substations:** MV/LV substation layouts, transformer sizing, power factor correction, and switchgear design.
- **LV Distribution (BS 7671):** Connected load schedules, maximum demand, cable sizing, voltage drop, and short-circuit fault analysis.
- **Emergency Power & Solar:** Standby diesel generators, UPS systems, and Grid-Tied/Hybrid Solar PV Energy Storage Systems.
- **ELV & Life Safety:** Addressable Fire Alarm (NFPA 72), CCTV, Access Control, Structured Cabling, Public Address, and BMS.

2.3 Plumbing & Public Health Engineering

- **Water Supply:** Fixture unit sizing (Hunter's Curve), booster pumps, water filtration/softening plants (WTP).
- **Drainage & STP:** Two-pipe/single-stack drainage, grease traps, and Biological Sewage Treatment Plants (STP).

2.4 Fire Protection & Life Safety Engineering

- **Sprinklers & Hydrants:** NFPA 13 automatic sprinklers, NFPA 14 standpipes, and ring main fire hydrants.
- **Clean Agent Suppression:** FM-200 and Novec 1230 total flooding systems for server rooms and control rooms (NFPA 2001).
- **Fire Pumping Stations:** UL/FM-listed fire pumps, jockey pumps, and suction storage reservoir design (NFPA 20).

2.5 Project Controls, Commissioning & BIM

- **Project Planning (Primavera P6 / MS Project):** Logic-linked CPM schedules, WBS, resource loading, and Earned Value Management (EVM).
- **Building Commissioning (CxA) & TAB:** Whole building commissioning (ASHRAE Guideline 0), air/hydraulic balancing, and pre-functional testing.
- **BIM & Clash Detection:** Full 3D Revit MEP modeling (LOD 300-500) and Navisworks Manage spatial coordination.
- **Cost Engineering (BEME / BoQ):** Preparation of Bills of Materials and Material Take-Offs using BESMM4 / CESMM4.



3. GOVERNING CODES & INDUSTRIAL TRACK RECORD

All designs strictly comply with ASHRAE, NFPA, BS 7671, CIBSE, IPC, and ISO 19650 standards.

Project Name & Description	Approx. Value	Role	Disciplines
Nestlé Flowergate Industrial Piping (Steam, Chilled, Process Water)	Over NGN 8.0 Billion	Project Engineer	Hydraulic design, piping supervision, pressure testing & commissioning.
Geri-Alimi Underpass Road & Infrastructure, Ilorin	Over NGN 3.0 Billion	Trainee/Intern	Storm drainage culverts, electrical reticulation & site QC.
Nestlé Flowergate Futuro Product Line (3,000 cubes/min)	Over NGN 700 Million	Project Supervisor	MEP utility integration, cleanroom HVAC & machine hook-ups.
Nestlé Flowergate Industrial Boiler House Construction	Over NGN 300 Million	Project Supervisor	Boiler installation, water treatment, steam piping & commissioning.
Nestlé Flowergate Technical Training Centre	Over NGN 100 Million	Project Supervisor	Full MEP design, VRF HVAC, power distribution & ELV.
Milo Plant Industrial Drainage System	Over NGN 100 Million	Project Supervisor	Heavy-duty thermal/chemical resistant piping & drainage.

Note: Industrial projects above were delivered in the founder's capacity as an employed engineering practitioner, demonstrating the rigorous technical pedigree of Techorite Engineering Solutions.

4. LEADERSHIP & CORPORATE REGISTRATION

Olatunji Adeola Olaonipekun (Founder & Lead Engineer) holds a B.Tech in Project Management Technology from FUT Minna (CGPA 4.29/5.00), is a certified PMP, CIPM Associate Member, Diploma holder in Facility Management, and recognized TEF Programme Mentor. He brings extensive industrial project controls and MEP engineering leadership to every engagement.

Corporate Parameter	Official Detail
Registered Business Name	Techorite Engineering Solutions
CAC Registration No.	BN 8804745 (Corporate Affairs Commission, Nigeria)
Tax Identification No. (TIN)	33505662-0001 (Federal Inland Revenue Service)
Registered Address	22, Iyaniwura House, Opp. White House, Kajola, Obafemi Owode LGA, Ogun State
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