

# **CORNELIUS, IDOWU.**

*(B.Eng. Mechanical Engineering)*

*(CAT I & II ISO Vibration Analysis Certification, HSE Level III HUET& SAS Certification)*

**29 EJEWHOR STREET, OKUMAGBA LAYOUT, WARRI  
DELTA STATE, NIGERIA**

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***Objective: To develop relevant skill and competencies necessary in solving Problems requiring the application of engineering principles in an ethical and professional manner***

## **PERSONAL INFORMATION**

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**Date of Birth:** 5<sup>th</sup> May, 1978  
**Place of Birth:** Ode Irele  
**Marital Status:** Married  
**Sex:** Male  
**L. G. A of Origin:** Irele  
**State of Origin:** Ondo State.  
**Nationality:** Nigerian

## **EXPERIENCES**

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**April,2020- Till Date SPIE NIGERIA LIMITED- TOTAL – (AKPO FPSO), VI, Lagos State.**

**Designation/Post: Mechanical Methods Engineer**

**Responsibility:**

- Develop maintenance philosophy, plan and schedule in coordination with the operation and maintenance department following international standards and quality requirements
- Develop maintenance deliverables and procedures in accordance with technical specifications and safety and targeting plant up-time maximization
- Technically support engineers and operations targeting plant up-time and availability
- Provide technical support to the operation team during the entire lifecycle of the rotating equipment, analyzing their performances, operative conditions and boundaries, in order to guarantee reliable and safe operations
- Provide technical support to the operation team during the entire lifecycle of the rotating equipment, analyzing their performances, operative conditions and boundaries, in order to guarantee reliable and safe operations
- Provide technical solution whenever the machines experience failures, utilizing sound maintenance strategies to analyze, address and rectify the root causes in order to prevent reoccurrences.
- Provide technical support to the maintenance team to develop preventive maintenance strategies and checks, along with predictive maintenance strategies and operation-based maintenance checks.
- Conduct root cause analysis to provide short- and long-term recommendations in rotating equipment.

- Develop planned campaign maintenance scopes as part of the Campaign Maintenance Team, using output from the SAP maintenance management system to bundle together all relevant planned and corrective maintenance and inspection, associated with a given system.
- Develop and control scope, schedule, manpower plan, and work packs
- Work closely with Operations/Bridge teams to develop permits, task risk assessments, isolations, lift plans, deck-plans, and any other deliverables required to support safe execution of the work scope in accordance with the relevant company processes and procedures.
- Work closely with Procurement to implement arrangements to ensure that all manpower, materials, tooling and equipment is identified, ordered and delivered in a timely manner to support the planned execution schedule.
- Establish productive relationships with key vendors to ensure efficient use of vendor labour and expertise.
- Identify all foreseeable risks associated with execution plans and implement appropriate contingency measures.
- Mobilize offshore to supervise the safe and timely execution of the agreed maintenance outage plans or support smaller scopes from onshore.
- Co-ordination of maintenance personnel, proposing technical improvements according to the characteristics of said co-ordination
- Conduct pre-execution and after-action reviews on designated campaign maintenance outages and ensure that actions are implemented to address any lessons identified, including completing feedback to update maintenance routines in SAP after each campaign
- Ensure the quality of machine, equipment or plant maintenance operations, including those carried out by third parties, is in line with reference standards
- Prepare any PTW's (Permits to Work) for any contractors coming onto the site
- Supervises & coordinates the work activities of assigned personnel in carrying out the Preventive, Corrective, Predictive, General & Inspection related mechanical maintenance and asset integrity activities of static equipment
- Follow and encourage strict adherence to the CLIENT's SSHE policy and regulations in all work and projects
- Prepare daily, weekly and monthly reports of all maintenance activities

**June,2018- March,2020 SPIE NIGERIA LIMITED- TOTAL DEEPWATER, VI, Lagos State.**

**Designation/Post: PTW Coordinator & Method Maintenance Engineer**

**Responsibility:**

- Prepare any PTW's (Permits to Work) for any contractors coming onto the site
- Perform risk assessments prior to undertaking any maintenance tasks ensuring risks and hazards have been identified
- Review the maintenance procedures and plan
- Supervises & coordinates the work activities of assigned personnel in carrying out the Preventive, Corrective, Predictive, General & Inspection related mechanical maintenance and asset integrity activities of static & rotating equipment
- Follow and encourage strict adherence to the CLIENT's SSHE policy and regulations in all work and projects

- Prepare daily, weekly and monthly reports of all maintenance activities

**Nov, 2017- May,2018 SPIE NIGERIA LIMITED- TOTAL DEEPWATER, VI, Lagos State.**

**Designation/Post: Mechanical Engineer Akpo RBM Project**

**Responsibility:**

- Akpo Criticality and Area study.
- Maintenance Strategy Set Up
- Optimization of maintenance Strategy
- Review and create maintenance procedures

**June, 2015- Oct, 2017 SPIE NIGERIA LIMITED, PORT HARCOURT, Rivers State.**

**Designation/Post: Mechanical Maintenance Lead Engineer**

**Responsibility:**

- Supervises & coordinates the work activities of assigned personnel in carrying out the Preventive, Corrective, Predictive, General & Inspection related mechanical maintenance and asset integrity activities of static & rotating equipment
- Carry out preventive maintenance, corrective maintenance and inspection programs of surface equipment installed on both onshore and offshore platforms/facilities.
- Provide *machinery engineering* support for modifications/new installations and applications.
- Trouble-shooting breakdowns, executing repairs and generating reports
- Keeping consistent equipment history and records tracking in CLIENT's CMMS
- Perform routine test of standby equipment and trouble-shoot defective equipment, repair and report the equipment back to serviceable condition.
- Ensure that inspection activities are conducted according to plan and strictly fulfilled CLIENT's requirements and specifications according to CLIENT's inspection policy.
- Follow and encourage strict adherence to the CLIENT's SSHE policy and regulations in all work and projects.
- Analyze and preparation of weekly, monthly plans for predictive, preventive and corrective maintenance.
- Regularly review critical spares holdings.
- Maintain a good relationship with OEMs to ensure smooth integration of services
- Support the production Team in troubleshooting operational rotating equipment problems using a systems approach
- Provide rotating equipment technical assurance support to process engineering, project engineering and other technical groups in the development and implementation of projects and plant revisions.

**November 2011-May, 2015 O-SECUL NIGERIA LTD. Warri, Delta State**

**Designation/Post: Mechanical Reliability/Project/ECM Lead Engineer/Vibration Analyst**

**Responsibility:**

- Installation, Construction and Commissioning of rotating equipment.
- Planning and Scheduling Maintenance of Equipment
- Stock and Inventory Control and Management.
- Monthly reporting of plant performance (availability of equipment) and cost performance (engineering budgets)

- Quality assurance for equipment fabrication and supply.
- Turnaround Planning, Scheduling and Estimation
- Planning and Scheduling Maintenance of Equipment
- Refurbishment of Rotor dynamic Machines such as Compressors, Pumps, Blowers
- Overhauling / Maintenance of Pumps, Steam / Gas Turbine, Compressors, Turbochargers, Diesel Engines.
- Experienced in equipment database configuration and building, applying the AMS Machinery Health Manager Software for maintenance planning and scheduling.
- Ensuring Plant Equipment Reliability and Availability through Optimized Reliability Based Maintenance.
- Carrying out Precision laser Alignment of shaft center lines at customers sites.
- Condition-Based (Reliability Centered, Predictive) Maintenance on Rotating & Static equipment using condition monitoring technologies (CSI 2130 Vibration Analyzer ,CSI 5200 Oil view Industrial Minilab, CSI 9800 Thermal Imager, Sonic Scan.
- Root Cause Failure Analysis (RCFA-Proactive Maintenance) on Rotating & Static Equipment-Vibration Analysis, Lube Oil Analysis, Infrared Thermography.
- Collection of vibration data, analysis of vibration data and generation of vibration analysis reports
- Technical presentations and training in the areas of Reliability Engineering and Equipment Condition monitoring solutions.
- Coordination and checking of engineering deliverables.
- Monthly project status reports and change orders.
- Responsible for planning, scheduling, conducting and coordinating the technical, management aspects of projects and meeting with client.
- Preparation of engineering project proposals, tenders, bill of engineering quantities and review of approved client invoice
- Budget monitoring and trend tracking.
- Directs and coordinates the activities of assigned personnel and ensure that permit to work is in place
- Monitors Contractor's performance as the work progresses to ensure that sound engineering skills are applied, and that engineering and construction procedures conform to Contract specifications and industry standards and good engineering practices
- Ensuring all relevant safety objectives and legal requirements are observed.
- Interpreting clients' requirements, identifying and addressing design parameters and engineering problems and ensuring solutions are implemented.
- Ensuring all justifications for contractual variations during projects are maintained to support subsequent commercial claims.
- Tender documents preparation and Bid processing in Nipex.
- Preparation of Technical and Commercial Proposal.

**April 2006- October, 2011 Delcon Engineering Company. Warri, Delta State.**

**Designation/Post: Mechanical/Pipeline Construction Engineer**

**Responsibility:**

- Plan and manage design and execution of pipeline/header engineering project.
- Effective management of project interface
- Liaise with federal entities, environmental agencies and local authorities on the implications of the construction.

- Coordinates all the Engineers on construction site.
- Solve the construction problems efficiently.
- Provide quality control and quality assurance to make sure that the purposes of the project are achieved.
- Make sure that the entire safety rules related to construction work are observed.
- Review of design deliverables and resolution of review actions

## **PROJECT EXECUTED, DESIGNATION AND DATES**

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2018-Till Date	AKPO FPSO Maintenance Contract
LOCATION	TOTAL E & P NGERIA LIMITED
DESIGNATION	Maintenance Engineer
2018	AKPO FPSO 2018 FFSD
LOCATION	TOTAL E & P NGERIA LIMITED
DESIGNATION	2018 Maintenance Coordinator
2017-2018	RE-ENGINEERING OF AKPO PROJECT
LOCATION	TOTAL E & P NGERIA LIMITED
DESIGNATION	Mechanical Engineer Akpo RBM Project
2015-2017	PROVISION OF MAINTENANCE & INSPECTION ENGINEERING AND GENERAL MAINTENANCE CONTRACT FOR TEPNG- OML 58/ NOPL- Northern Option Gas Pipeline Project
LOCATION	TOTAL E & P NGERIA LIMITED
DESIGNATION	Mechanical Maintenance Lead Engineer
2015	REHABILITATION OF BLACK START GENERATORS (CAT.ENGINES)
LOCATION	Port Harcourt Refining Company Limited (PHRC)
DESIGNATION	Project Lead/Mechanical Engineer Lead
2015	LASER ALIGNMENT OF EXPORT PUMPS
LOCATION:	Seplat Petroleum Development Company
DESIGNMENT:	Alignment Expert
2014-2015	EQUIPMENT CONDITION MONITORING AND MAINTENANCE
LOCATION	Port Harcourt Refining Company Limited (PHRC)
DESIGNATION	Project Lead/Reliability Engineer Lead
2014	INSTALLATION, ALIGNMENT AND BALANCING OF FORCED DRAFT FAN
LOCATION	BW Offshore (FPSO Sendje Berge-ADDAX), Rivers state.
DESIGNATION:	Project lead/ Reliability Engineer
2013-2015	ALIGNMENT AND BALANCING OF INDUSTRIAL FANS
LOCATION	Lafarge Cement Wapco, Ewekoro I & II, Ogun State
DESIGNATION	Alignment and Balancing Expert
2012-2014	EQUIPMENT CONDITION MONITORING
LOCATION:	Kaduna Refining and Petrochemical Company Limited (KRPC)
DESIGNATION:	Vibration Analyst
2012-2012	INSTALLATION, CONSTRUCTION AND COMMISSIONING OF CDU

DESALTER WATER INJECTION PUMPS  
 LOCATION: Port Harcourt Refining Company, Rivers State  
 DESIGNATION: Project Engineer

2010-2011 REPAIR OF WATER AND FIRE HYDRANT TANKS AND LINES  
 LOCATION: North bank Flow station (SPDC), Warri, Delta State.  
 DESIGNATION: Site Engineer

2010-2011 REHABILITATION OF FENCE AND SHORE PROTECTION  
 LOCATION: Odidi Flow station (SPDC), Warri, Delta State.  
 DESIGNATION: Site Engineer

2009-2010 REPAIR AND REPLACEMENT OF VANDALIZED FLOWLINE  
 LOCATION: Ovul Flow line (SPDC), Sapele, Delta State  
 DESIGNATION: Site Engineer

### **INSTITUTIONS ATTENDED, QUALIFICATIONS AND DATES**

1999 – 2004 (B.Eng {Hons}; Mechanical Engineering)  
 • (Second class Upper Division)  
 • University of Ado-Ekiti, Ekiti State

1991 – 1996 Secondary School Leaving Certificate (SSCE)  
 • Alegbo Senior Secondary School, Effurun

1985– 1990 Primary School Leaving Certificate  
 • L.A Primary School, Idogun Irele, Ondo State.

### **TRAINING AND CERTIFICATION WITH DATES**

Dec, 2019 E-PERMIT Training.  
 Total Upstream Company in Nigeria

June, 2018 Helicopter Under Water Escape Training (HUET & SAS)

Dec, 2017 UNISUP/SAP Training.  
 Total Upstream Company in Nigeria

February, 2014 Turbine Operation and Maintenance  
 O-Secul Nigeria Limited, Warri, Delta State.

August, 2013 Compressor Operation and Maintenance  
 O-Secul Nigeria Limited, Warri, Delta State.

September, 2012 CAT I and CAT II ISO Vibration Certification  
 Vibration Analysis Inc. USA

April, 2012 Primavera Project Planner and MS Project  
 O-Secul Nigeria Limited, Warri, Delta State.

March, 2012 Pump Operation and Maintenance  
 O-Secul Nigeria Limited, Warri, Delta State.

February, 2012	Vibration Analysis & Component Balancing O-Secul Nigeria Limited, Warri, Delta State
January, 2012	Behavioral Based Safety O-Secul Nigeria Limited, Warri, Delta State.
November, 2011	Vibration Analysis Master Class Vibration Analysis Inc. USA
June, 2009	Safety Certification (HSE Level III) Nigerian Institute of Safety Professionals, Warri, Delta State
July, 2007	Auto Cad (2D & 3D) Corner Stone Computer Training Institute. Warri, Delta State.

## **ADDITIONAL SKILLS**

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- Experienced in research methods and presentation
- Computer proficiency, user of various windows based operating systems
- Ability to work with little or no supervision
- Effective communication and problem solving skills
- Ability to develop new ideas and innovations
- A team player with strong analytical mind and leadership capabilities
- Familiar with various standards and codes (ASME, ANSI, AWS, API etc)

## **REFEREE**

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**1. MR. LISA AKINDURO.**

ExxonMobil, Lagos.  
Senior Geologist/Geophysicist  
08037151803.  
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**2. MR. NEGBE SYLVANUS**

SPDC Nig. Ltd, Forcados Terminal, Delta State.  
Senior Instrument Field Supervisor  
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**3. MR. UNOROH POLYCARP**

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