ALABI MACSTEPHEN BUDUKA
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PROFESSIONAL SUMMARY

I am an Instrumentation and Control Engineer, with knowledge of Analyzers, Automation, Electrical and Electronics Engineering. I have acquired nine (9) months intensive training on Integrated Safety Control Systems (ICSS) from Yokogawa Human Development Academy Middle East & Africa.

SKILLS

- Yokogawa DCS & SIS (Centum VP CS 35000 & Prosafe RS)
- Documentation using Electronic Data Management Systems (EDMS)
- Operating systems window 7, 8 and 9
- Gas work. 2 Mass Spectrometer HMI (Prima PRO)
- Electrical troubleshooting
- Analyzers maintenance and operations
- Pre-commissioning and commissioning
- Hardware Automation

EXPERIENCE

1. **Electrical, Instrumentation & Automation Maintenance Engineer – Dangote Fertilizer Limited Jetty, Ibeju Lekki, Lagos.**
   March 2023 till date.

➢ **Mobile Ship loader Maintenance**

- Repair & adjust system components such sensors/transmitters or remove and replace defective parts.
- Perform schedules preventive maintenance work and complete pre-start up test and generate maintenance report.
- Carry out regular scheduled inspections of the field sensors/instruments and generate report.
- Installation of field sensors and cable terminations in Junction boxes
- Cleaning and fixing problems with sensors and switches.
- Consult manual, read and interpret circuit diagrams and schematic for installed automation and instrumentation devices.
- Record and report specific consumable used to the head of department.

2. **Analyzer Maintenance Engineer – Dangote Fertilizer Limited, Ibeju Lekki, Lagos**
   26th July 2022 to 16th March 2023

➢ **Analyzer Shelter pre-commissioning, commissioning, Operation & Maintenance (Train 1 & 2)**

- Installation and termination of PH and Conductivity Analyzers
- Pre-commissioning and commissioning of Analyzer shelter, racks, sample condition systems and Pressure Reducing Systems.
- Calibration of liquid PH, ORP and Conductivity (Rosemount Analytical Inc/Emerson Process management)
- Calibration of O2, CO2 and CO Analyzers (Servomex)
- Interfacing with control room operators and laboratory technicians during anomaly in Liquid Analyzers reading.
- Commissioning of Gas Chromatograph (Thermofisher Scientific) and Mass Spectrometer (Yokogawa)
- Troubleshooting of HVAC motor issues in Analyzer House
- Commissioning of Continuous Emission Monitoring Systems (CEMS)
- Routine maintenance and writing of daily progressive reports.
- Involved in supervision of Fire & Gas devices by contractors.
- Installation of Gas detectors and replacement of faulty ones.

3. **Instrumentation Commissioning Engineer - Dangote Fertilizer Limited Jetty, Ibeju Lekki, Lagos. January 1st 2021 to 24th July 2021.**
   - **Power & Control panel, and sensor/actuators installation of Mobile ship loader**
   - Ensured termination of cables are properly done in the power and control panels.
   - Ensured all sensors, switches and actuators are installed according to drawing.
   - Endured that all I/O devices are wired to the right terminals on the PLC module.
   - Ensured all sensors, switches and actuators are terminated properly in the Junction boxes.

4. **Field Instrumentation & Control Engineer - Dangote Fertilizer Limited, Ibeju Lekki, Lagos June 2nd 2020 to December 27th 2020**
   - **Pre-commissioning & Commissioning of Train 1 & 2**
   - Supervised calibration of pressure gauges with contractors
   - Carried out QAQC Instrumentation activities with SAIPEM QAQC team.
   - Supervised and inspected installed and non-installed transmitters using P&ID
   - Involved in loop checks and calibration of field instruments.
   - Inspections of installed terminated and un-terminated field instrument.
   - Inspections of instrumentation procured materials by contractors.

5. **Integrated Control Safety Systems (ICSS) Trainee Engineer – Yokogawa Nigeria Limited/NCDMB/TOTAL E & P**
   September 11th 2014 to May 8th 2015
   - **OFON 11 WPS Project Engineering**
     - **DCS Engineering, operations and Maintenance**
       Architecture and functional requirement, Hardware specification, Software specifications, Testing requirements, Nest loading/IO Allocation, Cabinet Specification, Console design & Specification, System cabinet design, Analog marshalling cabinet, Digital marshalling cabinet, Grounding scheme, FF marshalling cabinet, Time synchronization, Factory acceptance test.
     - **SIS (Emergency Shutdown System)**
       Architecture and functional requirement, Hardware Specification, Software requirements, Hazards, and Operability Studies (HAZOP), Layers of Protection analysis, IEC 61508, IEC 61511

EDUCATION

1. Bachelor of Engineering in Electrical & Electronics Engineering (Second Class Lower Division), The University of Nottingham Malaysia – 24th July 2010.

ACCOMPLISHMENT

1. Pre-commissioning/Commissioning of Field Instruments in Train 1 & 2 of Dangote Fertilizer Plant
2. Pre-commissioning/Commissioning of Analyzer Shelter, racks, Pressure reducing systems, Sample Condition Systems in Train 1 & 2
3. Commissioning of Mobile Ship loader Control and Power panels, sensors and actuators.

TRAINING & CERTIFICATION

1. Training Certificate in ICSS Training in the following courses: **PROCESS MEASUREMENT AND CONTROL, DISTRIBUTED CONTROL SYSTEM, SAFETY INSTRUMENTED SYSTEMS, PROJECT EXECUTION, AUTOCAD AND CONTROL SYSTEM PROJECT ENGINEERING BY YOKOGAWA MIDDLE EAST & AFRICA B.S.C ©**
2. Certificate of Computer Proficiency, GBIT Malaysia
3. Certificate in Understanding effective permit to work implementation by Dangote Academy
4. Production Operator (Production Technician) Training in the following courses: **OIL & GAS INSTRUMENTATION & CONTROLS, PUMPS, LACT UNIT OPERATIONS, GAS DEHYDRATION AND ACID GAS REMOVAL OPERATIONS, P&ID AND PANEL OPERATIONS, VALVES, HEAT EXCHANGERS AND FURNACES, FIELD OPERATOR DUTIES AND RESPONSIBILITIES, COMPRESSORS, GAS LIFT AND WATER FLOODING, PROCESS SAFETY, ISSOW, PTW, JSA, SIMOPS, CONFINED SPACE ENTRY, PROCESS EMERGENCY AND RESPONSE (HIGH-TECH IT & ENGINEERING)**
5. Training Course on Radiation Protection by Radmon Safety Services limited.

LANGUAGE AND ABILITY
REFEREE