MUSA MIRACLE OLUWASEUN

BIODATA

Date of birth: 12th February,1999.
Marital Status: Married
Nationality: Nigerian
Telephone: 07043622708
Address: **Egbeda, Oyo State**
Gender: Female
State of Origin: **Osun State**
Email: miraclemusa199@gmail.com

PROFESSIONAL SUMMARY

Chemical Engineer with 2 years of experience in process engineering, industrial production operations, chemical processing, and plant optimization within manufacturing and process industries. Skilled in process monitoring. production optimization, equipment troubleshooting, chemical operations, and quality control procedures. Possesses strong expertise in chemical process design, heat and mass transfer, fluid mechanics, reaction engineering, and industrial safety operations. Experienced in handling plant utilities, process equipment, production systems, and operational analysis while ensuring compliance with HSE standards, regulations, and operational procedures.

AREAS OF EXPERTISE

- Chemical Engineering: Process Engineering | Chemical Processing |Heat Transfer | Mass Transfer | Reaction Engineering
- Process Operations: Production Optimization | Process Monitoring | Plant Operations | Utilities Management | Process Control
- Industrial Systems: Fluid Mechanics | Distillation Systems|Chemical Equipment | Process Troubleshooting | Plant Reliability
- Quality & Safety: Quality Control |Process Safety | HSE Compliance | Risk Assessment | Operational Safety Procedures
- Process Analysis: Process Simulation | Process Improvement | Performance Monitoring | Operational Analysis | Optimization
- Tools & Software: Aspen HYSYS | AutoCAD | MATLAB| ANSYS | Microsoft Office | MS Word | MS Excel | PowerPoint

EDUCATION

HND CHEMICAL ENGINEERING | LAGOS STATE POLYTECHNIC **2023**

OND CHEMICAL ENGINEERING | LAGOS STATE POLYTECHNIC **2021**

EXPERIENCES

Chemical Engineer | Plant Quality and Food Safety Engineer | Coca-Cola Hellenic Bottling Company

2025 - Present

- Coordinating process optimization and operational improvement activities enhancing production efficiency and plant reliability.
- Supporting installation, commissioning, and operational testing activities for process equipment and industrial systems.
- Conduct quality checks, tests, and analysis.
- Ensure compliance with standards, GLP, and GMP.
- Perform physical-chemical, microbiological, and sensory evaluation tests.
- Implement corrective actions, laboratory procedures, and quality systems.
- Maintain records, laboratory equipment, and safety standards.
- Troubleshoot non-conforming result issues.
- Generate reports and trend analysis.
- Support development and execution of plant calibration programs.
- Participate in continuous improvement projects.

Chemical Engineer | On The Job Training | Coca-Cola Hellenic Bottling Company

2024 - 2025

- Conduct quality checks, tests, and analysis.
- Ensure compliance with standards, GLP, and GMP.
- Operate production machinery and equipment.
- Monitor process parameters and make adjustments.
- Conduct routine equipment checks.
- Maintain accurate records and equipment.
- Troubleshoot and repair utility equipment and systems.

Chemical Engineering Intern | Stallion Bajaj Automotive

2020 - 2021

- Problem-solving.
- Diagnosis and repair.
- Performing repairs involving brakes, hydraulics, suspension, electrical, fuel ignition, air conditioning, computer systems, and more.
- Inventory officer.
- Customer analysis and report.

Chemical Engineering SIWES | Dangote Sino Truck

2019 - 2020

- Read blue prints and specifications.
- Monitor operations to ensure they meet production standards.
- Recommend adjustments to the assembly or production process.
- Inspect, test, or measure materials or products being produced.
- Accept or reject finished items.
- Giving an expatriate advice to product consumers.

PROJECTS

Cooling Tower & Heat Exchangers Performance Analysis Project **Feb 2026 - April 2026**

- Monitored live industrial operations by logging real-time fluid temperatures, mass flow rates, and ambient wet-bulb conditions to establish accurate steady-state performance baselines.
- Evaluated field data using log mean temperature difference (LMTD) and overall heat transfer coefficient (U) methods to isolate and quantify efficiency losses caused by scaling and fouling.
- Conducted a targeted chemical Clean-In-Place (CIP) intervention and optimized cooling tower water chemistry cycles to eliminate thermal bottlenecks and restore peak waste heat rejection.

Industrial Wastewater Treatment & Process Improvement Project **June 2025 - Aug 2025**

- Evaluated live industrial wastewater facility operations by tracking influent flow rates, chemical dosing accuracy, and pollutant loading baselines to establish high-accuracy steady-state benchmarks.
- Analyzed field data using standard environmental chemistry methods and mass balance principles to successfully isolate chemical and biological bottlenecks causing effluent compliance risks.
- Upgraded automated chemical flocculation controls and streamlined sludge management protocols to stabilize process chemistry, ensure environmental compliance, and lower overall operational costs.

Process Optimization & Heat Transfer Efficiency Study **April 2024 - May 2024**

- Conducted process efficiency analysis improving production performance and thermal operational efficiency successfully.
- Applled heat transfer and process engineering principles optimizing industrial process operational rellability standards.