

ONWUMAH OMATSHOLA Mechanical Engineer

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PROFESSIONAL SUMMARY:

A Competent and motivated Mechanical Engineer with a strong educational foundation and practical experience delivering mechanical solutions across power plants and the oil and gas EPC sector. I am Skilled in applying core engineering principles to design and optimize system performance using AVEVA E3D and AutoCAD. I am dedicated to continuous learning and adept at collaborating with senior engineers and cross-functional teams to execute precise design deliverables and exceed project goals.

TECHNICAL SKILLS & CORE COMPETENCIES:

- **Design & Analysis Software:** AVEVA E3D / PDMS, CAESAR II, AutoCAD, Computer-Aided Design (CAD) Proficiency.
- **Engineering Design & Drafting:** Mechanical Design and Drafting, Blueprint Interpretation, P&ID and PFD Interpretation.
- **Equipment & Systems Knowledge:** Mechanical Systems Troubleshooting, Automotive Knowledge, Engine Performance Evaluation, Diagnostic Tool Usage.
- **Codes & Standards:** ASME & API Code Familiarity, Quality Control and Assurance
- **Project & Operations Management:** Project Management, Risk Management, Repair and Maintenance Management, Hand & Power Tools Usage.
- **Safety & Leadership:** Health and Safety Compliance, Team Leadership, Problem Analysis and Solving, Detail-Oriented, Technical Communication, Multidisciplinary Coordination.

PROFESSIONAL EXPERIENCE:

Junior Mechanical Engineer | Jan 2023 – Present

Apex Engineering Services Ltd. (Engineering Subcontractor for NETCO / NNPC Refinery Projects)

Key Contributions:

- Supported the full engineering lifecycle across Conceptual Design, FEED, and Detailed Engineering Design phases for oil and gas Engineering Procurement and Construction (EPC) projects.
- Assisted in the preparation of Material Take-Offs (MTO) and Bill of Materials (BOM) for piping networks and structural steel supports, reducing procurement material discrepancies.
- Utilized AutoCAD during the Conceptual and FEED stages to draft preliminary P&IDs and equipment plot plans for complex refinery systems and transitioned the FEED data into Detailed Engineering Design using AVEVA E3D to build precise 3D models of static and rotating equipment, including pumps, vessels, heat exchangers, re-boilers, and cracking tower.
- Actively participated in Hazard and Operability (HAZOP) review meetings, documenting action items regarding equipment layouts and safe maintenance access.
- Developed detailed 3D piping layouts and equipment configurations actively identifying and resolving spatial clashes to ensure safe maintenance access and produced high-quality 2D engineering drawings and piping isometrics, ensuring strict compliance with ASME Section VIII and API standards.
- Assisted senior engineers in the installation, servicing, and repair of machinery, also conducting root cause analysis on malfunctioning Static and Rotating equipment.

Technical Team Lead | Jan 2019 – Jan 2023

JijiCars Formerly (Cars45 Limited)

Key Contributions:

- Managed technical operations and engineering workflows across 7 diagnostic centers, overseeing daily activities and ensuring strict adherence to technical and safety standards.
- Enforced strict Quality Assurance (QA/QC) protocols on technical data and diagnostic inspection reports, maintaining consistency, accuracy, and compliance with standardized processes.
- Developed and implemented targeted Performance Improvement Plans (PIP) after evaluating technical staff competencies, successfully closing skill gaps across engineering teams.
- Communicated complex technical findings, diagnostic data, and repair recommendations clearly and concisely to clients, resolving technical concerns effectively.
- Evaluated, refined, and led training programs on updated technical inspection frameworks, system tools, and diagnostic procedures to optimize operational efficiency and accuracy.

Printing Machine Operator | May 2013 – May 2015

Jott Industries Nig. Limited

Key Contributions:

- Produced high-quality brochures, flyers, four-six colour artwork, and mailers, utilizing printing machines such as spot colour, speed master, and Insignia to deliver exceptional results.
- Prepared and operated an offset printing press proficiently, ensuring maximum efficiency and production.
- Handled the mounted paper rolls on reels, inserting ends into automatic feed mechanisms, and adjusting ink flow through precise manipulation of fountain thumbscrews.

EDUCATION:		
Bestower International University (BSc)	Computer Science	2021–2024 (2 nd Class Upper)
National Youth Service Corp (NYSC)	Sokoto State	2017 – 2018
Yaba College of Technology (HND)	Mechanical Engineering	2015 – 2017 (Upper Credit)
Federal Polytechnic Auchi (OND)	Mechanical Engineering	2010 – 2012 (Lower Credit)

REFERENCES

Available Upon Request