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ODINIGWE EBERE STEPHEN

MECHANICAL ENGINEERING GRADUATE

PROFESSIONAL SUMMARY

Mechanical Engineering graduate from Nnamdi Azikiwe University with a Second Class Upper degree and practical exposure to automobile maintenance, mechanical systems, machine design, fabrication, engineering analysis, and CAD. Completed a six-month industrial training programme in an automobile workshop, gained hands-on experience with vehicle maintenance, servicing and suspension systems. Academic project experiences include design and fabrication of a vibrating sieving machine, involving material selection, vibration analysis, structural and stress analysis, fluid dynamics analysis, electrical and power-drive analysis, and safety and hygienic design. Competent in SolidWorks, AutoCAD, and SimFlow, with additional experience applying ANOVA and Design of Experiments (DOE). Seeking an entry-level Mechanical Engineering opportunity in the oil and gas sector .

EDUCATION

Nnamdi Azikiwe University, Awka, Anambra State — *Bachelor Of Engineering — Mechanical Engineering.*
Second Class Upper Division{2:1} | November 2020 – December 2025

Knoxfield Comprehensive College, Ota, Ogun State. – *SSCE/WAEC.*
2020

INDUSTRIAL TRAINING EXPERIENCE

Ojo-Iwaju Automobile & Co. Ahmadiyya street, Ijaiye-Ojukoro, Lagos. —
Trainee Automobile Engineer
May 2024 – October 2024

- Gained hands-on practical experience in automobile maintenance and servicing during a six-month industrial training programme.
- Assisted with maintenance activities involving automobile suspension systems.
- Applied theoretical and practical knowledge of automobile systems within a workshop environment.
- Worked with mechanical hand tools including pliers, ratchets, screwdrivers, tyre gauges, wrenches, and vice grips.

- Developed practical understanding of vehicle maintenance procedures and mechanical components through hands-on workshop activities.

ENGINEERING PROJECTS

Design and Fabrication of a High-Efficiency Vibrating Sieving Machine for Large-Scale Tiger Nut Slurry Production — *Final Year Group Project | Nnamdi Azikiwe University*

- Contributed to the design and fabrication of a vibrating sieving machine developed to improve the efficiency and quality of tiger nut slurry production.
- Responsible for material selection and project methodology.
- Performed vibration, structural and stress, fluid dynamics, electrical and power-drive, safety, and hygienic design analyses as part of the project.
- Applied SolidWorks, ANOVA, Design of Experiments (DOE), and steel grading charts during the design and analysis process.
- Achieved an average separation efficiency of **85.2% across three tests**, compared with the reported **50–70%** efficiency of traditional cloth sieving methods.

Piping and Instrumentation Diagram of PTDF Building Water Piping System Of Nnamdi Azikiwe University — *Final Year Sole_Research Project*

- Examined the piping and instrumentation layout of the Petroleum Technology Development Fund (PTDF) building water piping system.
- Used **AutoCAD** and **SimFlow** in the project.
- Identified areas for potential optimization and efficiency improvement within the piping system.
- Determined material take-off and total project cost based on the piping system assessment.

TECHNICAL SKILLS

Engineering & CAD Software:

SolidWorks, AutoCAD, SimFlow, Microsoft Office

Mechanical Engineering:

Machine Design, Fabrication, Automobile Maintenance & Servicing, Material Selection

Engineering Analysis:

Vibration Analysis, Structural & Stress Analysis, Fluid Dynamics Analysis, Electrical & Power-Drive Analysis

Design & Engineering Methods:

Design of Experiments (DOE), ANOVA, Piping & Instrumentation Diagrams (P&IDs), Material Take-Off

CORE COMPETENCIES

- Problem Solving
- Critical Thinking
- Research
- Teamwork
- Innovation

CAREER INTEREST

Oil & Gas | Mechanical Engineering | Engineering Operations & Maintenance

Seeking an entry-level opportunity within the oil and gas sector to apply mechanical engineering knowledge, practical workshop experience, engineering analysis skills, and technical problem-solving abilities while developing professional experience in an industrial environment.

REFERENCES

Available upon request.