

Etefia Oghenekevwe

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Objective:

Highly motivated Mechanical Engineer and Safety Officer with a strong academic background and practical experience in Design, maintenance, troubleshooting, and communication. I am seeking a challenging role in Mechanical Engineering to apply my skills and contribute to the success of an organization.

Education:

- **MSc Advanced Mechanical Engineering (Distinction): Teesside University, Middlesbrough, UK (United Kingdom), 2023 – 2024(December).**
- ✓ Relevant Modules: Supply Chain Management, Computer Aided Design and Manufacturing, Finite Element Analysis, Manufacturing, Sustainability, Machine Design.
- **Bachelor of Engineering in Mechanical Engineering, University of Benin, Benin City, Nigeria Second Class Honours Year of Graduation: 2016**

Academic Projects:

- Designed a square line fascia bracket, performing both linear and non-linear analysis to ensure displacement remained below 5mm.
- Investigated the first 10 natural frequencies and mode shapes of a fully fixed steel square plate using Finite Element Method (FEM) and compared results with Warburton's Theory.
- Created a Computer-Aided Design (CAD) model of a bike crank set and designed a mould insert model of the pedal using CAD and CAM.
- Generated G-code for CNC machining to manufacture the pedal mould insert.
- Installation of access control doors.
- Thermal Analysis Simulation on Drilling process.

Professional Training:

- HSE Level 1: British International Safety Organization (Health and Safety at Work)
- HSE Level 2: British International Safety Organization (Risk Assessment)
- HSE Level 3: British International Safety Organization (Environmental Awareness)
- Environmental Impact Assessment(Department Of Petroleum Resources, Nigeria)
- Basic First Aid/CPR

Skills:

- Engineering: CAD (Siemens NX, SolidWorks), Mechanical (ANSYS), Fabrication and Rapid Prototyping, Finite Element Analysis (FEA), Heating, Ventilation, and Air Conditioning (HVAC) systems, Experience with thermal and mechanical coupled simulations, Blender, Proactive approach to maintenance and troubleshooting
- Computing/ Programming: Python, JavaScript, HTML, CSS, ReactJS, Graphic Design, Adobe Illustrator, Wordpress, Pixellab.
- Effective communication skills
- Proficient in software such as MsWord, Excel, Powerpoint.....
- Creative thinking abilities

Career History:

2024 (Internship): Elemy Ltd, Redcar, UK

Mechanical Engineer (Project Engineer)

- Collaborated on the "Brickbud" project, focusing on the use of Structural Glass Reinforcement Polymer (GRP) composites for wall restraint systems to enhance construction site safety.
- Participated in Team meetings, brainstorming, and collaboration, contributing to the project's success.
- Reviewed and cross-examined Finite Element Analysis (FEA) results, ensuring all critical details were accurately addressed from design (CAD) to simulation (FEA).
- Simulated the stresses on GRP Brickbud under varying conditions, optimizing span placement and foot fixation requirements based on wind loads and wall heights.

- Assisted The Welding Institute (TWI) by providing detailed feedback on stress models and ensuring consistency in the project's engineering analysis.
- Prepared a comprehensive project document, contributed to fabrication, and outlined Lean manufacturing processes to minimize waste.

2023 (Present): HALFORDS Ltd, Darlington, UK

Services/Sales Advisor

- Performed over 100 vehicle checks, providing expert advice to customers and recommending necessary repairs.
- Diagnosed car air conditioning systems, added refrigerants when required, and advised on further repairs as needed.
- Educated customers on a wide range of car accessories, ensuring they understood functionality and proper use.
- Assisted customers in selecting appropriate car parts, ensuring compatibility with their vehicle models.
- Advised customers on paint selection using vehicle color codes and provided step-by-step guidance on application procedures.
- Installed car parts and accessories, including roof bars, bike racks, dash cameras, and sat nav systems.
- Performed windscreen chip repairs, restoring structural integrity and enhancing safety

2023-2024: BORO CAR REPAIRS, Middlesbrough, UK

Auto Parts Salesperson

- Engaging customers, finding the right parts that fits their car.
- List the auto parts by make and place them online.
- Negotiate price.

2017-2018: APPLE & PEARS NIGERIA LIMITED, Kajola Sagamu, Ogun State, Nigeria.

Mechanical Engineer

- Maintained production plants, elevators, and conveyors
- Oversaw maintenance of 500kVA and 1000kVA Perkins diesel engines
- Contributed to water treatment processes

- Conducted maintenance of air conditioning systems
- Serviced pumps and compressors