

ESO OPEYEMI SAMUEL

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Science | Engineering | Tech

I am a graduate of the University of Lagos, Nigeria, with a keen interest in science and engineering to utilize my applicable skills in developing innovative solutions and designs in the field of Mechanical Engineering.

I'm a dedicated learner with over three years of experience in the production, automobile, and power industry, seeking to leverage my wide range of skills by contributing actively to scientific advancement and creative developments to solve industrial and environmental issues.

Therefore, I'm currently looking for academic opportunities such as a post-graduate study to gain the adequate skills and experience needed to further my career in mechanical engineering.

CORE SKILLS

- Empathy
- Collaboration
- Problem Solving
- Research and Analysis
- Leadership
- Adaptability
- Communication
- Critical Thinking
- Creativity
- Design Thinking
- Entrepreneurship
- Project Management

CORE COMPETENCIES

- Microsoft Suite
- Technical Reports
- AutoCAD Inventor
- CFD and FVM Analysis
- Simulation (ANSYS Fluent)
- Mechanical 3D CAD drawings
- Data Analysis (Python, SQL, Matlab, MS Excel)
- Web Development
- Graphics Design and Digital Drawing (Adobe Photoshop, Corel Draw, PowerPoint)

EDUCATION

Institution: University of Lagos, Nigeria. (2014-2018)
Degree: Mechanical Engineering (B.Sc.)
Grade: 4.25/5.0 CGPA

Institution: The Polytechnic, Ibadan, Nigeria (2010 -2012)
Degree: Mechanical Engineering (National Diploma)
Grade: 4.66/5.0 CGPA

RESEARCH EXPERIENCE

DEPARTMENT OF MECHANICAL ENGINEERING, UNILAG, LAGOS

Research Student (*Thermofluid Research Group, Mechanical Engineering, University of Lagos*) (2020-Present)

Working as a part-time research student under the supervision of [Dr. Olakoyejo Olabode](#).

Research interests are heat and mass transfer, fluid mechanic, material science, manufacturing engineering, and renewable energy.

Contributions: Use of simulating tools like Ansys Fluent and making use of other engineering tools like Python, SQL, Matlab, and Excel.

Undergraduate Thesis : (Undergraduate Project) (2018)

Undergraduate Project, taken at the final year of study as part of the University Graduation Requirements at the Heat Transfer Unit, Department of Mechanical Engineering, University of Lagos (UNILAG).

Title: "Constructal multiscale analysis of an elliptical cooling channel with internal heat generation"

Project Supervisor: [Dr. Olakoyejo Olabode](#)

Contributions:

- Recorded and analyzed data to extract results of substantial interests, crucial to the project's conclusions.
- Gained adequate work skills and research experience, proven to be beneficial for further academic purposes.

PROFESSIONAL EXPERIENCE

Nestle Nigeria PLC, Ogun, Nigeria. March 2020 - Present
Work Title: *Mechanical Engineering Technician*

Key milestones & Impact so far

- Executing maintenance and repair on production machines like Bosch, Wolf, and Optima machine in the filling & packing, at the "Milo Beverages" department, increasing productivity in the first six months.

- Participated in Nestle Idea and Innovation competition with the topic “Development of RTD Milo with the introduction of an aluminum can and PET bottle, with flavor varieties.”
- Designing, implementing, and monitoring research processes and other project developments, such as the successful introduction of a formula to calculate the number of pallets to be produced from measuring the diameter of the laminate reel.

Hayat Kimya, Lagos, Nigeria.
Work Title: Production Operator

November 2018 – February 2020

Key milestones & Impact so far:

- Ensured safety procedures, maintained production equipment, and implemented standard maintenance procedures to meet health, safety, and environmental standards for the quality control of the products.

Stag Engineering Ltd, Lagos, Nigeria.
Work Title: Industrial Trainee

Feb 2017 – July 2017

Key milestones & Impact so far:

- Assist in installing, maintaining, overhauling of diesel generator and running load bank tests on a diesel generator, ensuring a smooth operation within the 6 months of operations.
- Collated and audited data to extract substantial result synthesis via research and data analysis, crucial to further engineering innovations.

PROFESSIONAL DEVELOPMENT

Applied Data Science with Python Coursera	(2022)
Machine Learning with SciKit Data School	(2022)
Introduction to Programming with Matlab Coursera	(2022)
Programming for Everybody (Getting Started with Python) Coursera	(2022)
Numerical Methods for Engineers Coursera	(2022)
STCW Basic Safety Training Nestle Nigeria PLC, Ogun, Nigeria	(2020)
Basic Oil and Chemical Tanker Cargo Operations Coastal Maritime, Ikoyi, Lagos, Nigeria	(2020)
Diploma in CAD CADD Centre	(2020)

LEADERSHIP AND AWARDS

Award of Excellence, Staff Recognition Nestle Nigeria PLC, Ogun, Nigeria	(2021)
Bursary Award Redeem Christian Church of God, University of Lagos.	(2016)
Endowment Award University of Lagos.	(2015)
Best Graduating Student Faculty of Engineering, The Polytechnic, Ibadan.	(2012)
Best Graduating Student Department of Mechanical Engineering, The Polytechnic, Ibadan.	(2012)
Award of Academic Excellence The Polytechnic, Ibadan.	(2011)

VOLUNTEER EXPERIENCE

Volunteer | [Trinitas Foundation](#) (2021 - Present)

Achievements:

- Contribute to poverty alleviation and economic growth through women and youth empowerment via Trinitas platforms.
- Assists in welfare; food and medical supplies allocation the needy and less privileged.

Academic Tutor | [Department of Mechanical Engineering, University of Lagos](#) (2015 - 2018)

Achievements:

- Started a free STEM coaching center to cater to the academic needs of students.
- Conceptualized and conducted an academics coaching club for mechanical engineering students.
- Recorded 30% success increase in exams, conducted end of each semester.
- Subjects taught included mathematics, designs, and engineering courses, boosting students' performance in the first three months