

BOLA PIUS ODUNARO

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PROFESSIONAL SUMMARY

A young, dynamic, result-oriented, and productive first-class graduate of mechanical engineering with deft research and analytical skills. I am a fast learner and an open-minded team player who is passionate about pursuing a career as a researcher and academia, with the hope of making significant and enormous contributions via innovative research.

Interests: Materials Failure | Corrosion | Fracture mechanics | Mechanics of Materials | Materials Deformation | Computational Materials Science | Mechanical Testing of Materials | Solid Mechanics of Materials

EDUCATION

University of Ibadan, Ibadan, Oyo, Nigeria

2020

Bachelor of Science (B.Sc.) in Mechanical Engineering

Final Grade: First Class Honors

GPA: 6.7/7.0

Thesis Title:

The Interface Design, Construction and Performance Evaluation of a Potentiostat-Galvanostat for Corrosion Rate Measurement using Mild Steel and Al-Zn-Mg as working electrode in 3% and 5% NaCl solution.

Yaba College of Technology, Yaba, Lagos, Nigeria.

2016

Higher National diploma (HND) Mechanical Engineering

Final Grade: (Distinction)

GPA: 3.71/4.0

Thesis Title:

Design and Simulation of Elevator for Multi-Storey Buildings to determine the effect of stress on peak time on the elevator system”

Yaba College of Technology, Yaba, Lagos, Nigeria.

2012

National diploma (ND) Mechanical Engineering

Final Grade: (Upper credit)

GPA: 3.13/4.0

Thesis Title:

Design and Construction of Recumbent Bicycle using locally fabricated material

SKILLS AND COMPETENCES

Laboratory: Corrosion study, Mechanical properties of a material, Fracture Mechanics | **Personal Strengths:** Excellent communication, interpersonal relationship skills, Leadership and Team Player, Organizational skills, Time and Project Management. | **Software:** Finite Element, Python, Autodesk AutoCad, Solidworks, Autodesk Inventor, Comsol Multiphysics, Machine Learning, etc

RESEARCH EXPERIENCE

Research Assistant, Department of Mechanical Engineering

2019-2020

University of Ibadan, Oyo State, Nigeria

- Assist faculty members in the lab on corrosion rate study of Mild Steel and Al-Zn-Mg .
- undergraduate research project on defects and grain boundary Aluminum alloy specimen by NDT method and SEM micrographs

PUBLICATIONS

Ajide, O.O., Idusuyi, N., Musa, F.A., Odunaro, B.P., Obasi, O.P., Adebayo, A. A., O.O. Oluwole, Oluwasegun, K.M., and Kumar, N. (2021). Development and Performance Evaluation of a Mini-Potentiostat for Corrosion Experimentations **(in review)**

TEACHING EXPERIENCE

Academic Tutor 2017-2020

Faculty of Technology, University of Ibadan, Oyo, Nigeria

- Coached and mentored prospective undergraduates, recording over 90 % average success yearly.
- Prepared academic materials and organized tutorials for colleagues and other students at lower levels.

Academic Tutor 2013-2016

Mechanical Engineering Department, Yabatech, Lagos, Nigeria

- Prepared academic materials and organized tutorial for colleagues and other students at lower levels.
- Established good reading culture among colleagues by distributing the class into several reading sub-groups

CONFERENCE/WORKSHOP ATTENDED

- | | |
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| • Into the future: Exploring the Mechanical-Digital Integration Conference | 2020 |
| • NIMEchE Conference: Engineering past, present and the future | 2017 |
| • Mechanical Engineering Students Bootcamp Lagos (NIMEchE) | 2018 |

INDUSTRIAL EXPERIENCE

Plant maintenance engineer. Dec. 2020 – Till date

Mainstream Energy Solution Limited. Niger, Nigeria.

- We conducted a corrosion study of materials in an extreme environment in the energy sector.
- We computed Routine equipment maintenance.
- Designed machine drawings for plant equipment
- Investigated problems are facing the Energy sector and postulated solutions.

mechanical engineering intern Oct. 2018 - Mar. 2019

Golden Sugar Company (Flour Mill of Nigeria), Lagos, Nigeria.

- I assembled machines and machine parts.
- Contributed to enduring that all mechanical, electrical, and instrumentation devices and equipment were in good working condition contribution to achieve low downtime
- Inspected, troubleshot, and maintained pumps and gas turbines in the industry.
- Maintained industrial machine, rotary equipment (BMA and Broadbent models), etc.

VOLUNTEERING & LEADERSHIP EXPERIENCE

Member of Noble Star Charity Organization *Feb.. 2019 – till Date*

- A handled mentorship program for these fewer privileged children
- Provision of educative materials to the children

Team lead, Nigerian Institution of Mechanical Engineers, UI (NiMechE, UI). *Dec. 2019 - Mar. 2020*

- Handled the selection and arrangement process of projects exhibited.
- Led the planning and coordination of the exhibition event.

AWARDS & HONORS

EducationUSA scholarship-2021: Outstanding academic performance

Gabriel Victoria Foundation Scholarship -2021: Outstanding academic performance

Dean's Honour Award - 2017- 2020: Outstanding academic Grades

Great Independence Residence Hall, University of Ibadan, Merit Award, 2020: Most outstanding student of the year (in Academics).

Departmental research award, 2020: Best student with more than 84% passed in final year undergraduate research work.