

# BOLA PIUS ODUNARO

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## PROFESSIONAL SUMMARY

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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

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**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

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**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

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**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

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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

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**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

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**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

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**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

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**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.