

Asonja Taiwo Omotayo

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Professional Summary

Rooted in integrity, driven by excellence, and inspired by sustainability, Asonja uses his diverse skills to craft solutions that not only solve today’s challenges but also shape a better future for generations to come. Supported by a Bachelor’s degree and Master’s degree in Mechanical Engineering.

Work Portfolio: www.asonja.com.ng

Skills

- **Core Technical Expertise:** Mechanical Manufacturing and Automation, Numerical Modelling and Simulation (Finite Element Analysis, Computational Fluid Dynamics), Engineering Optimization and Product Design.
 - **Data & Analytical Proficiency:** Business Intelligence and Data Science, Data Analysis and Visualization (Proficient with Python, Excel, Power BI, Tableau).
 - **Key Soft Skills:** Leadership and Resilience, Critical Thinking and Problem Solving, Effective Communication and Team Collaboration.
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Professional Certifications

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| • General Health, Safety and Environment (Levels 1&2) – ISPON | 2025 |
| • Advanced Health, Safety and Environment (Levels 3) – ISPON | 2025 |
| • Health and Safety at Work (HSE Levels 1) – World Safety Organization (WSO) | 2025 |
| • Risk Assessment Practical Application (HSE Level 2) – World Safety Organization (WSO) | 2025 |
| • Environmental Awareness (HSE Level 3) – World Safety Organization (WSO) | 2025 |
| • First Aid and CPR – World Safety Organization (WSO) | 2024 |
| • Working at Height (WAH) – World Safety Organization (WSO) | 2024 |
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Professional Experience

Mechanical Manufacturing Intern

Siemens – Nanjing, China.
June 2023 – December 2024

- Designed and analyzed components using CAD software, conducted simulations, and validated prototypes.
- Collaborated with cross-functional teams and prepared detailed reports on project outcomes.

Renewable Energy Engineer

Jtech Inverter and Solar – Akure, Nigeria.
April 2019 – February 2023

- Conducted residential and commercial energy audits to ASHRAE Level 2 standards.
 - Designed and assessed feasibility for installing local inverters, solar water heaters, and photovoltaic systems.
 - Provided recommendations on energy-saving strategies.
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Professional Memberships

- Nigerian Society of Engineers (NSE) 2022
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Education

Nanjing University of Science and Technology, Nanjing, China

Master's in Mechanical Engineering - Manufacturing and Automation

Federal University of Technology, Akure, Nigeria

Bachelor's in Mechanical Engineering – First Class

Publications

1. **Book Chapter: Modeling of Air Turbine Heating Chamber - An Optimization Method for Efficiency**
Frontiers in Physical Sciences Research, 2023
 2. **Design of Air Turbine Heating Chamber: An Optimization Method for Efficiency**
Journal of Energy and Natural Resources Research, 2022
 3. **Materials, Waste, and Energy-Environment Relationships in Sustainability**
Journal of Materials and Technology, 2022
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Conferences and Workshops

1. **Micro-Nano Satellite Manufacturing and Computational Optical Imaging Frontiers - Summer School Program**
Nanjing University of Science and Technology, China
August 2023
2. **International Conference on Engineering for Sustainable World**
Covenant University, Nigeria
November 2023
3. **Motivating Multilateral Efforts to End Poverty, Quality Education, Climate Action, and Inclusivity**
Babcock University, Nigeria
July 2021