

JAIYEOLA ESTHER OLAMIPOOSI

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RESEARCH INTERESTS

Mechanical Design | Manufacturing Systems | Control Systems | Computational Engineering | Sustainable Engineering Technologies & Industrial Innovation

EDUCATION

Ladoke Akintola University of Technology (LAUTECH)

Bachelor of Technology in Mechanical Engineering

GPA: 3.89 / 5.00

Relevant Coursework: Mechanical Vibrations, Mechanics of Machines, Automation and Control

Mar 2022 – Jul 2026

Ogbomoso, Oyo State, Nigeria

The Polytechnic, Ibadan

National Diploma in Mechanical Engineering

Grade: Upper Credit

Nov 2018 – Mar 2021

Ibadan, Oyo State, Nigeria

RESEARCH EXPERIENCE

Undergraduate Researcher

Mechanical Engineering Dept., LAUTECH

- Conducted comprehensive literature reviews and technical sourcing to support suspension system development.
- Contributed to the design and implementation of Linear Quadratic Regulator (LQR) control strategies.
- Assisted in the mechanical design, control architecture, and component selection for a robotic manipulator.
- Executed data collection and experimental analysis to optimize system efficiency and performance parameters.

Dec 2025 – Aug 2026

INDUSTRIAL EXPERIENCE

Technician Engineering Intern

Faith Automobiles — Oyo State, Nigeria

- Executed diagnostic troubleshooting, routine servicing, and component replacement across Honda, Toyota, Acura, Suzuki, and Kia vehicles.
- Collaborated with senior engineers on complex mechanical failure analysis and vehicle restoration projects.

Jun 2025 – Sep 2025

Technician Engineering Intern

Challengers Automobiles Nigeria Ltd — Oyo State, Nigeria

- Managed scheduled maintenance, mechanical fault diagnosis, and repair procedures for Mitsubishi, Suzuki, and Toyota fleets.
- Streamlined workshop operations and maintenance schedules to optimize repair turnaround times.

Apr 2025 – Jun 2025

INDUSTRIAL EXPERIENCE (CONTINUED)

Sales & Technical Representative
Voyles Melodi Nig. Ltd. (Thermocool) — Oyo State, Nigeria

Mar 2021 – Feb 2022

- Delivered technical advisory services and client support for commercial and residential cooling/power systems.
- Managed component coupling, generator assembly operations, and inventory store operations.

PROJECTS, COMPETITIONS & ACHIEVEMENTS

Cryo Smart Rechargeable Cooling System
OORC Ideation Hackathon

May 2025

- Co-engineered an energy-efficient, rechargeable cold-chain storage solution for temperature-sensitive medical supplies and vaccines.
- Scaled project design concepts to address domestic and agricultural cold storage constraints.

Automated Waste Bin Project 1st Place Winner
LAUMED Journal Club Scientific Conference & Journal Launch — Team Triumph

Feb 2025

- Developed an automated smart waste management system integrating sensor technologies to enhance municipal sanitation efficiency.

Innovation & Hackathon Competitions

- Participant, Young Nigerians Innovation Conference (Apr 2025)
- Participant, UI-UNILAG National Innovation Design Competition (Nov 2023)

LEADERSHIP EXPERIENCE

Sub-Zonal Southwest Coordinator
NIMechE National Students Forum (NIMechE-NSF)

Nov 2025 – Present

- Oversee engagement initiatives and strategic communications across Southwest student chapters and national executive bodies.

Special Assistant on Event Planning & Coordination
NAOSS, LAUTECH Chapter

Feb 2026 – Present

- Direct operational logistics, stakeholder engagement, and scheduling for departmental academic conferences.

SKILLS & COMPETENCIES

Engineering Design & Analysis
SolidWorks, AutoCAD, Control Systems (LQR)

Manufacturing & Fabrication
Foundry Operations, Metal Casting, Assembly & Maintenance

Programming & Tools
Python, HTML5, CSS, Microsoft Excel, Word, Canva

Technical Documentation
Experimental Analysis, Data Collection, Technical Reporting

CERTIFICATIONS, MEMBERSHIPS & LEADERSHIP

Certifications:

- HSE Officer Certification (Issued Jun 2026)
- Data Science & AI Workshop — Cephass ICT Hub (Completed 2026)
- Effective Leadership — HP LIFE (2026)
- Design Thinking — HP LIFE (2026)
- Social Entrepreneurship — HP LIFE (2026)

Memberships & Roles:

- Student Member, NIMechE & SPE
- Ambassador, Nigeria Data Protection Commission
- Ambassador, 234Project Impact Hub
- Media Volunteer, The Industry Discourse (2025)