

Adeniyi Adebowale Aderehinwo.
Engineering Design | CAD Specialistn | CAD Expert

Telephone: +234 813 238 0951, +234 808 911 2717
Email: adeniyiaderehinwo@gmail.com
Portfolio: cad.tuplea.com.ng/projects
Page: ade-adeniyi.tuplea.com.ng

Professional Summary

Dynamic and results-driven engineering design professional with expertise in Computer-Aided Design (CAD), product development, and technical training. Proficient in AutoCAD, SolidWorks, Siemens Tecnomatix Plant Simulation, Adobe Photoshop, Adobe After Effect, and Blender, with proven experience designing mechanical systems, agricultural machinery, and industrial structures. Adept at training professionals and students in CAD tools, with over 500 individuals trained. Skilled in developing precise models, simulations, and prototypes that align with industry standards and sustainability principles.

Key Skills and Expertise

CAD Software:	AutoCAD (2D/3D), SolidWorks, Siemens Tecnomatix Plant Simulation, SketchUp, Adobe Packages, Blender(in view)
Product Design and Simulation:	Creates functional designs and prototypes.
Technical Training:	Facilitator of professional CAD training workshops and student mentorship.
Engineering Projects::	Biogas technology, greenhouse design, and agricultural equipment development..
Research & Analysis:	Experimental design, energy optimization, and sustainable engineering solutions.

Certification & Professional Development

- AutoCAD 2D & 3D – Parach ICT Hub (2014).
- HSE Levels 1–3 – Deeprimex Consulting (2019).
- Project Management Professional – Environext Dev. Service (2021).

Professional Membership

- Graduate Member Nigeria Society of Engineers (NSE)
 - Graduate Member Nigeria Institution of Agricultural Engineers (NIAE)
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Achievements and Leadership Roles

- Successfully trained over 300 individuals in CAD tools, digital design, and web development.
- Acted as head at various levels (student and career-wise), overseeing technical workshops, product development, project launch and exhibitions.
- Spearheaded innovative design-driven solutions that improved process efficiency, product quality, and structural reliability across multiple client projects.
- Acted as team lead at Tuplea ICT Concepts, overseeing CAD design projects from concept to completion while ensuring compliance with industry standards.

Academic Research Projects

Biogas Technology Research

IITA, Ibadan (2022 – 2023)

- Designed and constructed anaerobic biodigesters for renewable energy.
- Managed industrial-scale 50m³ biogas digesters.

Undergraduate Research Project

University of Ibadan (2019 – 2020)

- Designed, constructed, and evaluated a solar-powered greenhouse with hybrid cooling for tropical crops.

National Diploma Project Research

Federal College of Agriculture, Ibadan (2013 – 2014)

- Determined energy requirements for optimal processing of African locust bean
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Professional Experience

Lead CAD Design Engineer

Tuplea ICT Concepts – Ibadan, Oyo State (2023 – Present)

- Execute 2D/3D drafting and design projects across mechanical and structural domains.
- Develop plant simulations and product prototypes using SolidWorks and Tecnomatix.
- Supervise CAD projects to ensure compliance with industry standards.
- Train students and professionals in CAD tools (AutoCAD, SolidWorks, Plant Simulation).

CAD Tutor

Parach ICT Academy – Ibadan, Oyo State (2020 – 2022)

- Facilitated training in AutoCAD and SolidWorks for over 100 learners.
- Designed machines, systems, and engineering components using CAD software.
- Prepared course content including handouts, exercises, and project work

Engineering Intern

Farmergiant Nigeria Limited – Ibadan, Oyo State (2018 – 2019)

- Created CAD models for poultry structures and agricultural machinery.
- Supervised fabrication of mechanical equipment (e.g., defeathering machines).
- Designed and optimized structural layouts for poultry farm construction.

Engineering Intern

Obkaz Steel Works, Ibadan (2016 – 2017)

- Assisted in design and fabrication of steel structures.
- Conducted routine machine maintenance and monitored fabrication processes.

Engineering Intern

Micky-Micky Steel Works, Ibadan (2013 – 2014)

- Supported construction and fabrication of tanks and storage systems.
 - Assisted in engineering design and supervision of field projects.
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Educational Background

- B.Sc. Agricultural and Environmental Engineering – University of Ibadan, Nigeria (2020).
 - National Diploma in Agricultural Engineering – Federal College of Agriculture, Ibadan, Nigeria (2014)
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Languages and Interests

- Languages: English (Advanced), Yoruba (Native), Hausa (Moderate)
- Interests: Product innovation, sustainability, mentoring, and traveling.

References

Available on request