MORENIKEJI TOBILOBA KOLADE

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PROFESSIONAL SUMMARY

A motivated Electrical and Electronic Engineering graduate with hands-on experience in research, teaching, and practical implementation of engineering concepts. I possess a solid foundation in electronic circuits, communication systems, and embedded systems, as demonstrated by my project on implementing a remote solar laboratory. As a Research and Teaching Assistant, I contributed to innovative research, course delivery, and practical manual development, enhancing the learning experience for students. I am eager to apply my skills in technology-driven solutions.

Interests: Artificial Intelligence | Automation | Data Analysis | Deep Learning | Machine Learning

EDUCATION

University of Ibadan, Ibadan, Oyo, Nigeria   **2023**
Bachelor of Science (B.Sc.) in Electrical and Electronic Engineering

RESEARCH EXPERIENCE

Bowen University, Iwo, Osun state, Nigeria   **2023- 2024**

- Thesis Title: Architectural Design of Artificial Intelligence-Based Integrated Farming System: Automated fertigation, hydrophonics, and Aquaculture, a Panacea for Food Security.
  Supervisor: Dr. S. Adebayo
  Duties: Conducted comprehensive reviews of relevant journals, contributed to thesis writing and prepared findings for submission to academic publications.
- Thesis Title: Tremor Area Inference System: A Case of South-West Nigeria
  Supervisor: Dr. S. Adebayo
  Duties: Conducted comprehensive reviews of relevant journals, performed data analysis, contributed to thesis writing, and prepared findings for submission to academic publications.
- Thesis Title: Development of a solar power system with a changeable configuration.
  Supervisor: Dr. S. Adebayo
  Duties: Conducted comprehensive reviews of relevant journals, collected and analyzed data, contributed to thesis writing, and prepared findings for submission to academic publications.

University of Ibadan, Ibadan, Oyo state, Nigeria   **2021-2023**

- Thesis Title: Enhancing Engineering Education via Remote Laboratory Deployment: A Case Study of Applied Electricity Experiments.
  Supervisor: Engr. O.O Olufajo
  Duties: Conducted comprehensive reviews of relevant journals, contributed to thesis writing, and prepared findings for submission to academic publications.
- Thesis Title: Implementation of a Remote Solar laboratory.
  Supervisor: Engr. O.O Olufajo
  Duties: Conducted comprehensive reviews of relevant journals, contributed to thesis writing, and prepared findings for submission to academic publications.

WORK EXPERIENCE

Research and Teaching Assistant   **12/2023 – 10/2024**

Bowen University, Iwo, Osun State, Nigeria

- Successfully executed innovative research projects, leading to the publication of 3 articles that advanced knowledge and technology in the field.
- Assisted in the delivery of undergraduate courses, facilitating student understanding through lectures, discussions, and hands-on activities
- Developed comprehensive course outlines and practical laboratory manuals, resulting in a 15% improvement in students' practical performance and alignment with educational standards.
- Instructed and provided support to over 150 students during laboratory practicals, ensuring 95% of students demonstrated a clear understanding of key theoretical concepts.
- Played a pivotal role in advancing research and education by contributing to curriculum development, improving laboratory experiences, and mentoring students in their academic and research endeavors.

Operations Engineering Intern   **08/2021 – 01/2022**

Diamond FM, University of Ibadan, Ibadan, Oyo State, Nigeria

- Collaborated in production planning and scheduling, working closely with producers to achieve 100% on-time delivery for live shows and pre-recorded content, contributing to high-quality broadcast standards.
- Monitored audio levels and quality during broadcasts, resulting in a 25% reduction in listener complaints and consistently delivering professional-grade sound quality.
- Provided technical setup and support for 10+ special events, remote broadcasts, and live shows, ensuring 100% equipment functionality and seamless production experiences

Engineering Intern   **06/2020 – 08/2020**

Digitouch Electronics, Ibadan, Oyo State, Nigeria.

- Led the design and implementation of intricate circuits for a diverse range of electronic projects, ensuring that each solution met specified technical requirements and performance standards.
- Engaged with customers to thoroughly understand their needs, providing expert guidance and support to help them resolve technical challenges and develop tailored solutions for their projects.
- Conducted comprehensive testing and troubleshooting of electronic circuits, reducing error rates by 20% and ensuring optimal functionality and reliability, with documented results contributing to future project improvements.
- Collaborated with cross-functional teams to integrate circuit designs into larger systems, meeting 100% of project deadlines and ensuring seamless system interoperability.
- Developed detailed project documentation, including circuit diagrams, specifications, and user manuals, improving knowledge transfer and reducing onboarding time for new team members by 40%.
- Researched and stayed updated on emerging technologies, incorporating innovative solutions that improved system performance by 15% across various projects.

PERSONAL AND PROFESSIONAL DEVELOPMENT

- **ML for Beginners**
  Self-paced learning via Microsoft GitHub Repository, November 2024 - Present
  Explored foundational concepts in Machine Learning, including data preprocessing, model building, and evaluation, using Python and Microsoft tools.
- **Google Cloud Skills Boost: Google Cloud Essentials**
  Google Cloud, November 2024
  Gained foundational knowledge of Google Cloud services, including computing, storage, networking, and machine learning tools.

PROJECTS

- **Machine Learning Explorations**
  Leveraged the "ML for Beginners" GitHub repository by Microsoft to implement and evaluate machine learning models. Gained hands-on experience with supervised learning techniques, and data cleaning.

SKILLS AND COMPETENCES

- **Technical Skills:** Jupyter Notebook, Python (NumPy, pandas, matplotlib, Seaborn), IoT, Microsoft Excel, Scikit-learn, Data Visualization.
- **Soft Skills:** Problem-solving, Time and Project Management, Critical Thinking, Excellent communication, Interpersonal relationship skills, Leadership and Negotiation, and Organizational skills.
- **Languages:** English, Yoruba.

LEADERSHIP, ACHIEVEMENTS AND CERTIFICATIONS

- Departmental Award for Selfless Service, 2023
- Departmental Welfare Committee Head, 2023
- Trained in Earthing Practice and Motor Starter with Schneider Electric Laboratory, 2022
- Certified Jobberman Soft Skills Training, 2021

PROFESSIONAL AFFILIATION

- Graduate Member, Nigerian Society of Engineers, 2023 - Present
- Student Member, Society of Electrical and Electronic Engineering Students, 2017 – 2023
- Student Member, Institute of Electrical and Electronic Engineers