IGBAROOLA SAMUEL ADEBAYO

Lagos, Nigeria

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EDUCATION

B.Eng. **Covenant University**, Ota, Ogun, Nigeria,　　　　　　　　　　August 2024
Bachelor of Engineering in Electrical and Electronics Engineering
Graduated First Class
Dissertation: "Development of an IoT-Enabled Energy Management System for Solar-PV Monitoring"
Level Advisor: T.Fiyinfoluwa Sanni, Ph.D
CGPA: 4.59/5.00

RESEARCH INTERESTS

Artificial Intelligence, Control Systems, Embedded Systems, Internet of Things (IoT), Machine Learning and Robotics

HONORS AND AWARDS

First Class Honors, Covenant University　　　　　　　　　　August 2024

Association of Electrical and Information Engineering, Covenant University　　July 2024
Certificate of Achievement awarded to the funniest person for the 19th set,
Electrical and Information Engineering (EIE).

RESEARCH EXPERIENCE

Undergraduate Student, Covenant University, Ota, Ogun　　　　　　2024
Supervisor: Dr. Somefun Tobiloba
Thesis: "Development of an IoT-Enabled Energy Management System for Solar-PV Monitoring"

- Developed an Energy Management System (EMS) to optimize energy usage in solar-powered setups.
- Implemented load-shedding based on energy consumption thresholds to control four separate loads using a 4-channel relay.
- Analyzed energy consumption patterns and threshold triggers to improve system efficiency.
- Conducted validation tests to ensure system reliability and effectiveness under various load scenarios, etc.

EXPERIENCE

Arnergy Solar Limited, Lagos, Nigeria　　　　　　March 2023 – August 2023/
Embedded System Intern　　　　　　　　　　　　　August 2022 – September 2022

- Assisted in the design, development, and testing of embedded systems for solar energy management.
- Collaborated with the engineering team to optimize system performance and efficiency.
- Contributed to the debugging and troubleshooting of hardware and software components.
- Gained valuable experience in energy management systems, circuit design, and IoT integration.

VOLUNTEERING

Ushering Unit Member, Covenant University Chapel
September 2019 to August 2024

- Ensured orderliness during services by coordinating crowd control and guiding attendees within the chapel
- Assisted attendees with any issues or concerns, enhancing their overall experience
- Supported chapel operations by maintaining a welcoming and organized environment

TECHNICAL COMPETENCIES

Programming Languages:
- C, Python

Web Development Technologies:
- HTML, CSS, JavaScript, Tailwind, React, PHP

Database Management:
- MySQL

Office and Productivity
- Microsoft Word, Excel, PowerPoint

Collaborative development and Version Control:
- GitHub, Google Meet, Zoom

Multimedia and Design:
- Adobe Photoshop

LICENSES AND CERTIFICATIONS

- **Prompt Engineering** (Issued in 2024)
- **Python Programming** (Issued in 2023)
  Credential ID: KQ3MGDYQZJ97
  https://www.coursera.org/account/accomplishments/certificate/KQ3MGDYQZJ97
- **C Programming** (Issued in 2022)
  ude.my/UC-5b50b430-7a9b-485e-99b4-d114f8495d2c
- **Initiating and Planning Projects** (Issued in 2022)
  https://www.coursera.org/account/accomplishments/certificate/RADEZMA9VSKD
- **Autodesk Fusion 360 Integrated CAD/CAM/CAE** (Issued in 2021)
  https://www.coursera.org/account/accomplishments/certificate/64DH43APVQ2B
- **Excel Skills for Business: Intermediate II** (Issued in 2020)
  Credential ID: CJEZM73YMVLN
  https://www.coursera.org/account/accomplishments/certificate/CJEZM73YMVLN

PROGRAMMING PROJECTS

- **Development of an IoT-Enabled Energy Management System for Solar PV Monitoring**
  Developed an Energy Management System (EMS) that utilizes load-shedding strategies to optimize energy consumption in solar-powered environments. This project formed the basis of my undergraduate thesis.
  Code available at https://github.com/bayo338/Final-Year-Project.git

LANGUAGES

English; **Yoruba**