

IGBAROOLA SAMUEL ADEBAYO

Lagos, Nigeria

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EDUCATION

B.Eng. Covenant University , Ota, Ogun, Nigeria, <i>Bachelor of Engineering in Electrical and Electronics Engineering</i> 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	August 2024
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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 Certificate of Achievement awarded to the funniest person for the 19 th set, Electrical and Information Engineering (EIE).	July 2024

RESEARCH EXPERIENCE

Undergraduate Student , Covenant University, Ota, Ogun Supervisor: Dr. Somefun Tobiloba Thesis: “Development of an IoT-Enabled Energy Management System for Solar-PV Monitoring” <ul style="list-style-type: none">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.	2024
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EXPERIENCE

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

- Coordinated crowd control and guided attendees during services to ensure orderliness, assisted with concerns to enhance their experience, and maintained a welcoming and organized chapel environment.

TECHNICAL COMPETENCIES

Programming Languages:

- C, Python

Web Development Technologies:

- HTML, CSS, JavaScript, 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](https://www.coursera.org/account/accomplishments/certificate/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