

IGBAROOLA SAMUEL ADEBAYO

Lagos, Nigeria

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EDUCATION

B.Eng. Covenant University, Ota, Ogun State, Nigeria, <i>Bachelor of Engineering in Electrical and Electronics Engineering</i> Graduated with First Class Honors 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, Ota, Ogun State, Nigeria	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 State, Nigeria Supervisor: Dr. Somefun Tobiloba Thesis: “Development of an IoT-Enabled Energy Management System for Solar-PV Monitoring” <ul style="list-style-type: none">Developed a solar-powered Energy Management System (EMS) with load-shedding capability using a 4-channel relay to control four loads. Analyzed consumption patterns, set threshold triggers to optimize efficiency, and validated system reliability under varying load conditions.	September 2023 - August 2024
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EXPERIENCE

Stepris Nigeria Limited, Lagos, Nigeria Youth Corps Member – MEP Operations (Mechanical & Electrical) <ul style="list-style-type: none">Assisting in the design and execution of Mechanical and Electrical (M&E) projects.Engaging in consulting services and managing on-site MEP activities, including supervision, inspection, and quality assurance of executed works.	January 2025 - Present
Arnergy Solar Limited, Lagos, Nigeria Embedded System Intern <ul style="list-style-type: none">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.	March 2023 – August 2023/ August 2022 – October 2022

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:

- React, Node.js, Next.js, PHP

Database Management:

- MySQL, PostgreSQL

Office and Productivity

- Microsoft Word, Excel, PowerPoint

Collaborative development and Version Control:

- GitHub, Google Meet, Zoom

Multimedia and Design:

- Adobe Photoshop, CorelDRAW

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/RADEZMA9VSKD)
- **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