

ADETOLA TANITOLUWA ADELAJA

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◆ PROFESSIONAL SUMMARY:

Telecommunication Engineering graduate with strong academic training and practical experience spanning embedded systems, wireless communication, software development, and broadcast engineering. Research-oriented engineer with a peer-reviewed paper accepted by IEEE (pending publication on IEEE Xplore). Demonstrated experience in IoT system design, ESP32-based architectures, computer vision using OpenCV, backend development with Python and PHP, and RF broadcast operations. Strong interest in satellite communication, RF systems, and intelligent infrastructure. Seeking an entry-level engineering or research role to apply technical expertise and contribute to innovative solutions.

EDUCATION:

FIRST DEGREE

Bachelor of Engineering (B.Eng.) Telecommunication Engineering

Air Force Institute of Technology (AFIT), Kaduna

2020 - 2025.

PUBLICATION

Adelaja, A., Adekogba, O., Ohemu, M., and Alabi, C., "Intelligent surveillance architecture using ESP32 CAM and PIR sensors for human detection," in *Proceedings of the 2025 IEEE Connecting the Unconnected Summit Europe, Middle East and Africa (CTU-EMEA)*, 2025, pp. 1–6. (in review)

RESEARCH EXPERIENCE

◆ Undergraduate Research Project on Intelligent Surveillance Architecture Using ESP32-CAM and PIR Sensors for Human Detection: Air Force Institute of Technology, Kaduna, 2025.

WORK EXPERIENCE:

YEARS OF PROFESSIONAL EXPERIENCE:

Technical Project Officer

AP Professional Services,

20 Aba close, Area 8, Garki, Abuja

2025 – Present

- ◆ Coordinated end-to-end execution of ICT and technical projects from planning to delivery.
- ◆ Managed procurement of hardware and technical equipment while ensuring cost control and vendor compliance.
- ◆ Led multidisciplinary teams, assigned tasks, and monitored performance against project timelines.
- ◆ Prepared technical documentation, progress reports, and risk mitigation plans.
- ◆ Liaised with clients, vendors, and technical teams to ensure service quality and stakeholder alignment.

Software Engineering Intern (SIWES II)

Artificial Intelligence Technologies, Abuja

May 2024 – Oct. 2024

Job Descriptions

- ◆ Developed and maintained backend modules using Python (Django) and PHP with Composer.

- ◆ Designed and integrated RESTful APIs and web interfaces using HTML, CSS, JavaScript, and Bootstrap.
- ◆ Implemented MySQL database operations, including schema design, CRUD operations, and query optimization.
- ◆ Participated in code reviews, debugging, and testing to improve software reliability.
- ◆ Collaborated with senior engineers on system design and application deployment.

Broadcast Engineering Intern (SIWES I)

Ogun State Television (OGTV), Abeokuta

Nov. 2023 – Jan. 2024

Job Descriptions

- ◆ Assisted in the setup and operation of Outside Broadcast units for live television transmission.
- ◆ Configured cameras, audio systems, RF transmission equipment, and studio infrastructure.
- ◆ Supported maintenance and troubleshooting of broadcast and RF systems.
- ◆ Monitored signal quality and network performance during live broadcasts.
- ◆ Applied telecommunications principles in real-time broadcast operations.

TECHNICAL SKILLS:

- ◆ Embedded Systems and IoT Design (ESP32, sensor integration)
- ◆ Computer Vision using OpenCV
- ◆ Backend Development (Python, Django, PHP)
- ◆ Web Technologies (HTML, CSS, JavaScript, Bootstrap)
- ◆ Database Management (MySQL)
- ◆ RF and Broadcast Systems
- ◆ Computer Hardware Diagnostics and Troubleshooting
- ◆ Technical Documentation and System Design

LEADERSHIP & SERVICE

- ◆ Environment and Sustainable Development outreach (Sensitization on Personal and Environmental Hygiene case study of Air Force Primary School, 453 BSG, NAF Base, Kaduna) 2022.
- ◆ Class Representative, Telecommunication Engineering Department 2020 - 2025

CONFERENCES AND WORKSHOP ATTENDED

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| The IEEE Connecting the Unconnected Submit – Europe, Middle East and Africa | 2025 |
| The IEEE Young Professional Tech for Green | 2025 |
| Abuja Google Developers Festival | 2025 |

PROFESSIONAL AFFILIATIONS

- ◆ Graduate Member, Nigerian Society of Engineers (GMNSE)
- ◆ Member, Institute of Electrical and Electronics Engineers (IEEE)
- ◆ Member, Internet Society (ISOC)
- ◆ Member, International Association of Engineers (IAENG)
- ◆ Member, Internet Corporation for Assigned Names and Numbers (ICANN)

CERTIFICATIONS

- ◆ Diploma in Software Engineering (Aitech Limited)
- ◆ Introduction to Online Privacy (Internet Society)
- ◆ Computer Engineering and Networking (Iszytech Computers & Communication)
- ◆ Cyber Security Basics 400.1 (ICANN)
- ◆ Machine Learning A-Z (Udemy, in view)