

SKILLS

- **Programming Skills:**
 - Python, Javascript, C++**Technologies: TensorFlow, Arduino IDE, React.JS, Next.Js :**
- **Fabrication Skills:**
 - 3D Modelling, Slicing and Printing**Technologies: Solid Works, AutoCAD, UltiMaker Cura :**
- **Soft Skills:**
 - Strong communication skills, comfortable addressing groups of people and active team player.:

PROJECTS

- **Healthcare Service Robot (Grace):** For my undergraduate thesis, I am working on building a robot nurse assistant to be used in my university clinic, focusing on autonomous navigation using vSLAM and path planning algorithms.
- **Sunflower Solar Tracker System:** Captained a team of four Mechatronics Engineering undergraduate colleagues to build a single-axis solar tracker system to maximize solar energy generation, leveraging Arduino and accessible electronic components. Class project.
- **Object Detection Fruit Sorting with Edge Impulse:** Trained a neural model using Edge Impulse to identify simple fruits in the immediate environment. 90% training performance and 84.62% real-world success rate. Class Project

EXPERIENCE

- **Armed Forces Electrical and Mechanical Engineering Workshop** Abuja, NG
Research Engineer Intern (SIWES) Jun. 2024 - Oct. 2024
 - **Tele-operated Surveillance Bot:** Collaborated with other students to assemble a tele-operated bot using ESP32 CAM, Arduino Uno, L298n motor driver, Lipo batteries, and DC motors. Programmed the bot's functionality in C++ via Arduino IDE, with Firebase for real-time communication and React.js for a user-friendly software interface.
 - * **Hardware:** ESP32 CAM, Arduino Uno, L298n motor driver, Lipo batteries, DC motors
 - * **Software:** Arduino IDE (C++), Firebase, React.js
 - * **Challenges:** Software debugging and updating during integration of real-time tele-operation and communication.
 - **Displacement Estimator:** Worked on leveraging an ESP32 dev board and MPU6050 to measure displacement from a starting position. The project was set to trigger measurements based on button clicks or changes in a database value (Firebase) to true.
 - * **Hardware:** ESP32 dev board, MPU6050
 - * **Software:** Arduino IDE (C++), Firebase, React.js
- **Kola Benz Automobile Workshop** Ilorin, NG
Junior Engineer Intern (SIWES) Jul. 2023 - Sept. 2023
 - **Classification, Diagnosis and Repairs:** Diagnosed and addressed a variety of automotive issues and worked with a variety of engine types.
 - **Knowledge sharing:** Engaged with experienced professionals in a collaborative environment facilitating open communication and knowledge exchange.

VOLUNTEERING

- **Lanre Shittu Motors** Abuja, NG
Junior Engineer Intern Jul. 2022 - Oct. 2022
 - **Diagnosis, Repairs and Knowledge sharing :** As a volunteer, I performed basic automobile servicing operations and assisted senior engineers and technicians in joint repairs.

PUBLICATIONS

- **Enhancing Robotics with Cognitive Capabilities:** Proceedings of the AAAI Conference on Artificial Intelligence, 38(21), 23738-23739. <https://doi.org/10.1609/aaai.v38i21.30547>. AAAI 2024

GRANTS

- **The 18th European Conference on Computer Vision (ECCV)**, September 2024: €100
- **The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024**, Seattle WA, USA. June 2024: \$1,190
- **The 38th Annual AAAI Conference on Artificial Intelligence, Undergraduate Consortium (AAAI-24 UC)**, Vancouver, Canada. February 2024: Full funding
- **61st Annual Meeting of the Association for Computational Linguistics (ACL)**, Toronto, Canada. July 2023: \$350

MEMBERSHIPS & SOCIETIES

- **IEEE Student Member**: Aug. 2024 - Present
- **IEEE Robotics and Automation Society Member**: Aug. 2024 - Present
- **Black in Robotics Member**: Mar. 2024 - Present
- **AAAI Member**: Mar. 2024 - Present
- **Black in AI Member**: Jan. 2024 - Present

LEADERSHIP

- **Male Welfare Coordinator, Devotion Unit**: Bowen University, 2023 - Present
- **Sunday School Teacher, Chapel**: Bowen University, 2023 - Present
- **Hall Representative, John Hostel**: Bowen University, 2023 - 2024
- **Engineering Students Quality Assurance Male Representative**: Bowen University, 2022 - 2023

EDUCATION

- **Bowen University** Iwo, NG
Bachelor of Engineering in Mechatronics Engineering Nov. 2022 – Nov. 2025
- **University of Ilorin** Ilorin, NG
Bachelor of Engineering in Mechanical Engineering — Transferred Sept. 2019 – Oct. 2022