

Emmanuel ALAO

Control & Robotics Engineer

I have a lot of experience working with embedded systems, actuators and sensors. I am currently doing my Ph.D in the field of Robotics and Autonomous navigation. I have great project management skills and work well either alone or in a group.



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WORK EXPERIENCE

Control & Robotics Engineer

Inria Sophia Antipolis

2020 – 2022

Sophia Antipolis (France)

Tasks

- Integration of sensors and computers on a robotic platform under Ubuntu 18.04 and ROS
- Calibration of sensors: cameras (360°), IMU, LiDAR and working with partners to Integrate Deep Learning algorithms
- Development of a reactive and proactive navigation strategy
- Preparation, demonstration and documentation for guiding a visually impaired person

Control & Robotics Engineer-Masters Intern

Inria Sophia Antipolis

2019 – 2020

Sophia Antipolis (France)

Tasks

- Development of robot control strategy in a future time horizon
- Optimal perception uncertainty-aware proactive navigation
- Simulation and Implementation of developed algorithm in MATLAB, ROS and on the real robot.

Computer Engineer

Christopher University

2017 – 2018

Mowe (Nigeria)

Tasks

- Server, CCTV and Computer Maintenance.
- System software Management and installation
- Networking and Database Management

EDUCATION

PhD – Control and Robotics

Université de Technologie de Compiègne

2022 – Current

Compiègne (France)

Masters – Control and Robotics (Advanced Robotics)

Ecole Centrale de Nantes

2018 – 2020

Nantes (France)

B. Eng. – Computer Engineering

Federal University of Technology

2011 – 2016

Minna (Nigeria)

SKILLS

ROS, Git

Arduino, C/C++, Python

Raspberry Pi, STM 32

MATLAB

Catia, Fusion 360

Teamwork

PROJECTS

- Uncertainty-aware collaborative navigation in crowded environments
- 3D EKF for an underwater robot using both thruster inputs and ranging beacons
- Design and development of a mobile Robot for remote monitoring and data acquisition
- RFID based driver license and Plate number expiry date check
- Fingerprint based students' attendance capturing device
- Automatic car obstacle detection and Avoidance System

ACHIEVEMENTS

- Scholar Total E&P Nigeria/Quai d'Orsay International Master's Degree Scholarship 2018-2020
- President Sustainable Development Goals (SDGs), NYSC, Mowe, 2017-2018.
- First Class Honours, Computer Engineering, FUTMinna, 2016.
- Best Project Computer Engineering, FUTMinna, 2016.
- V. President Junior Engineering and Technology Students (JETs) Club, 2011.
- Facilitator of the Millennium Development Goals(MDGs), 2010.
- Graduate Participant Computer-Supported Cooperative Learning Programme, 2010.

LANGUAGES

English ■ ■ ■ ■ ■

Native or Bilingual Proficiency

French ■ ■ ■ ■ ■

Limited Working Proficiency