

# Okonkwo Moses Chukwuka

[Website](#) | [Email](#)

## PERSONAL DATA

Date/Place of Birth: 8<sup>th</sup> July, 1997, Enugu City, Enugu State.  
Marital Status: Single.  
Nationality: Nigerian.  
Permanent Address: 15 Obgaru Street, Independence Layout, Enugu State, Nigeria.  
Current Address: Shenyang University of Technology, No. 111, Shenliao West Road,  
Economic And Technological Development Zone, Shenyang, China.

## EDUCATION AND ACADEMIC QUALIFICATIONS

2016 - 2017: International Exchange College, Xiangtan University, Hunan, China.  
**Chinese Language Proficiency. HSK4**

2017 - 2021: College of Automation and Electronic Information Engineering,  
Xiangtan University, Hunan, China.  
**Bachelor of Engineering Degree in Electronic Information Engineering.**

2021-2024 College of Electrical Engineering,  
Shenyang University of Technology, Liaoning, China.  
**Masters in Electrical Engineering: Computer Vision for Robotics**

2024-Present School of Electrical Engineering,  
**Zhejiang University, Zhejiang Hangzhou, China.**  
**PhD in Electrical Engineering- Computer Vision for Autonomous Systems.**

2025-Present AutoLab, School of Engineering,  
**WestLake University, Zhejiang Hangzhou, China.**  
Visiting student under [Prof. Kaicheng Yu](#)

## Professional References.

- Prof. Yang Jiaqiang  
Relationship PhD. Supervisor. Zhejaing University  
Email [y.j.qiang@zju.edu.cn](mailto:y.j.qiang@zju.edu.cn)
- Prof. Junyou Yang  
Relationship MSc. Thesis Advisor. Shenyang Uni. of Tech.  
Email [junyouyang@sut.edu.cn](mailto:junyouyang@sut.edu.cn)

## PAPERS AND PUBLICATIONS.

2024: **Moses Chukwuka Okonkwo**, Junyou Yang, Yizhen Sun, Guang Yang, Fausto Pedro García Márquez. RDSP-SLAM: Robust Object-Aware SLAM based on Deep Shape

## **HONOURS, CERTIFICATES AND AWARDS**

- 2017: Certificate of Proficiency, HSK level IV, Confucius Institute Headquarters, Hanban.
- 2017: Chinese Speech Contest for Foreigners in Xiangtan - Second Position.
- 2018: Hunan Government Scholarship for International Students, Hunan, China.
- 2019: Hunan Government Scholarship for International Students, Hunan, China.
- 2019: Xiangtan University Scholarship for International Students, Xiangtan, Hunan, China.
- 2021: Chinese Government Scholarship CSC, Shenyang University of Technology.
- 2024: Chinese Government Scholarship CSC, Zhejiang University of Technology.

## **WORK EXPERIENCE AND TRAINING**

- 2019: Xiangtan University Summer Engineering Boot Camp, Embedded Systems and Programming in C.
- 2023 **Internship** - Perception Research Lab at Northeast University(东北大学):
- a) Training of **crop row detection deep learning** models
  - b) Training of **deep learning models for farm scene panoptic segmentation**
  - c) Deployment of deep learning models using **Pytorch** and **ROS** for **robust visual navigation** of Agricultural Robots
  - d) Visual Navigation: ORB-SLAM(2/3).

## **MEMBERSHIP OF COMMITTEES**

- i. Member, Xiangtan University, Embedded System Development Lab - C programming. (2018 to 2021)

## **Engineering projects**

(Please click the title to watch demo video)

- 2023: Robust Keyframe segmentation of visual Object-SLAM Based on Deepshape priors (ORB-SLAM2, DeepSDF, YOLOv8/RTM-Det) [Ms Project]
- 2021: [STM32 based mobile car with PID controlled motors](#)[BSc Project].
- 2021: [Servo motor PID speed control.](#)
- 2020: Display of IMU and GPS sensor data using STM32 embedded system. [\[link 1\]](#)  
[\[link 2\]](#)

- 2020: Sound Detection Reading Glass for Deaf People, Blinks and vibrates when e.g the phone rings. [Team ]
- 2020: [Time based stepper motor control for dressing robot.](#)
- 2019: [51 McU Line tracking mobile car based on photo-resistors](#)
- 2019: [Oscillator based Clock and Alarm using 8051 McU.](#)

### **ENGINEERING FIELD (SKILLS).**

- i. C/C++ programming Language
- ii. ROS
- iii. Gazebo
- iv. Python( OpenCV, OpenMMLab, Pytorch)
- v. Linux(Ubuntu)[high]
- vi. Scientific Writing.
- vii. Simultaneous Localization and Mapping SLAM

### **ENGINEERING AND RESEARCH INTERESTS.**

- i. Computer vision, Machine Learning & Deep Learning
- ii. Self Driving Vehicle, Mobile Robots, 3D Vision and Spatial Intelligence
- iii. Sensor Fusion
- iv. Semantic SLAM

### **GENERAL INTERESTS.**

- i. Psychology
- ii. Philosophy
- iii. Management
- iv. Entrepreneurship

### **Languages Spoken:**

- a. English Language – Very good and fluent.
- b. Igbo – Fluent.
- c. Mandarin – Fluent.

### **Hobbies:**

- a. Photography and Video Making.
- b. Playing Basketball.
- c. Reading.