

Okonkwo Moses Chukwuka

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PERSONAL DATA

Date/Place of Birth: 8th 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
- Prof. Junyou Yang
Relationship MSc. Thesis Advisor. Shenyang Uni. of Tech.
Email 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.