Okonkwo Moses Chukwuka

Website | **Email**

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 Priors. IEEE ACCESS, 12th, January, 2024.

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 detetion deep learning** models

   b) Training of **deep learing models for farm scene panoptic segmentation**

   c) Deployment of deep learning models using **Pytorch** and **ROS** for **rubost 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 (ORBSLAM2, 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. Python(OpenCV, OpenMMLab, Pytorch)
iv. Linux(Ubuntu)[high]
v. Scientific Writing.
vi. Simultaneous Localization and Mapping SLAM

ENGINEERING AND RESEARCH INTERESTS.
i. Computer vision, Machine Learning & Deep Learning
ii. Autonomous Systems, 3D Vision and Spatial Intelligence

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.