FAVOUR MOSES

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# OBJECTIVES

I am a highly motivated and results-driven software Engineer with a strong programming background and great interpersonal skills, expertise in machine learning modeling, (computer vision, and natural language processing), HTML, JS, REACT, TailwindCSS. I am seeking an opportunity to contribute my skills and knowledge to cutting-edge research/enterprise projects. I aim to leverage my technical expertise to advance the field of Artificial Intelligence and make meaningful contributions to solving complex problems.

# EDUCATION

**Bachelor of Science in Mathematics Education,** Delta State University, Abraka, Nigeria. *2016-2021*

Supervisor: Mr. Tabeta Bethel .I. *GPA 4.02/5.0*

Thesis: Effect of the Use of ICT in the Academic Performance of Junior Secondary school school students during the Covid-19 Era.

Relevant Course Work: Artificial Intelligence, Linear and Non-linear Control, Circuitry and Reliability

# RESEARCH EXPERIENCE

**Research Intern** *Nov. 2019 – Aug 2020*

Department of Science Education, Delta State University, *Delta State*, *Nigeria.*

Supervisor: Mr. Tabeta Bethel .I.

* Participated in online classes, use of e-learning platforms, and engagement with educational apps.
* Improved student's proficiency in ICT skills, teaching them to use various digital tools, software, and platforms.

# Research Intern

Velhect Ltd *Oct. 2022- present 2020 - Nov. 2021*

Supervisor: Okunlola Emmanuel.AMB Onyekwere Godwin Nwachukwuneke(KSM). *FCT, Abuja, Nigeria*

* Translated design mockups into actual web pages using React.JS, HTML, and TailwindCSS.
* Contributed to developing and improving AI algorithms, machine learning models

# WORK EXPERIENCE

**Software developer**

Mogrex Limited,

*May 2022 – present.*

*FCT, Nigeria.*

* Collaborated with developers to develop a Fintech app (CatholicPay app).
* Developing and implementing machine learning and deep learning algorithms for research projects
* Collaborating with cross-functional teams, including Devops, Backend developers, and other frontend developers.

# PUBLICATIONS

E. Okunlola, A.T Ajiboye, Autonomous UAV system for light–weighted payload delivery, computer Engineering project exhibition, University of Ilorin, Nigeria. *2021*.

Media publication: Winner WTN exhibition by Hardwarethings Nigeria. *01/2023.*

Link: <https://hardwarethings.org/super-display>

Media publication: E. Okunlola developed Automated Handwashing Device for Covid-19, University of Ilorin. 2020

F. Moses, I.B Tabeta, Effect of the Use of ICT in the Academic Performance of Junior Secondary school students during the Covid-19 Era, Delta State University, Nigeria. *2021*.Link: <https://thenationonlineng.net/covid-19-unilorin-student-invents-automated-hand-washing-machine/>

# UNDERGRADUATE THESIS

**Title:** Effect of the Use of ICT in the Academic Performance of Junior Secondary school students during the Covid-19 Era, Delta State University *11/2019-08/2021***Title:** Autonomous UAV system for light-weighted payload delivery *11/2019-08/2021*

Supervisor: I,B Tabeta. Delta State Engr. Dr. A.T Ajiboye. *University of Ilorin, Nigeria*

* A robust learning-based obstacle avoidance method was proposed leveraging feature enhancing networks.
* The autonomous flight configuration was based on Navio2 – Raspberry pi 3B+ which runs well on Ardupilot flight Stack.
* A dataset consisting of more than 10,000 image frames, corresponding navigation command and state was made and trained on OpenCV model.
* Gathered data from schools to check their academic performance.Facial recognition and object detection feature was implemented to the UAV for fugitive face recognition and mapping functionalities.
* Prepared data using analytics software to generate insight about the performance of the students in question.
* Analyzed data to check various categories of students i.e performing well and not performing well.
* Shared the data amongst various stakeholders to check where to act on.

# PROJECTS

* **Development of ERP system** *12/2019 Velhect*
* **Mini-Autonomous Car with Obstacle Avoidance Using Sonar** *12/2019 Icreate Africa*

I worked with developers at Velhect to develop ERP system for client using my stacks for managing and integrating the important parts of their businesses to connect planning, purchasing inventory, sales marketing, finance, human resources etc.I developed the project during Icreate project exhibition which lasted for 48 hours. The obstacle avoidance mini-car prototype is a cutting-edge automotive technology that integrates advanced sensor systems and energy-efficient power sources to create a highly responsive and eco-friendly vehicle. This vehicle employs three ultrasonic sensors and a lithium-ion battery to navigate its surroundings safely, making it an ideal choice for applications ranging from autonomous delivery vehicles to intelligent transportation systems. Future consideration involves using OpenCV technology for object detection.

**Developed web application for Texclusive** *12/2020*

Texclusive Web Application is a comprehensive filmmaking tool designed with some other developers to revolutionize the way filmmakers and production teams collaborate and manage their projects.

**Developed personal portfolio** *01/2022*

I developed an online portfolio website for my professional identity, showcasing my skills, work, and achievements.

**Facial Recognition Application with OpenCV and Python** *11/2020-08/2021 ,*

I collaborated with other developers to work

**Autonomous UAV System for Light-Weighted Payload Delivery** *01/2020-08/2021 University of Ilorin, Nigeria.*

The Autonomous Drone was my final year project during my undergraduate, it represents the pinnacle of innovation and engineering expertise, showcasing the culmination of my academic journey in Computer Engineering. This groundbreaking project is an extraordinary fusion of cutting-edge technology, robotics, and artificial intelligence, resulting in a fully autonomous drone system, it offers feature such as payload delivery, and GPS based autonomous flight, facial recognition and object detection.

**Facial Recognition Application with OpenCV and Python** *11/2020-08/2021 University of Ilorin, Nigeria*

I worked on an OpenCV Facial Recognition Application which is a cutting-edge personal project that harnesses the power of computer vision and machine learning to create a sophisticated facial recognition system, implemented for follow me function for UAV system. This project showcases a mastery of OpenCV, a powerful open-source computer vision library, and demonstrates my expertise in image processing and artificial intelligence.

**Law Chabot (LexAuto**) *07/2023-present*

*Velhect Ltd.*

LexAuto is a state-of-the-art, fine-tuned language model (LLM) tailored specifically for the legal domain. This advanced tool, built upon the foundation of GPT-3.5 architecture, has been meticulously trained and fine-tuned to excel in legal contexts, making it an invaluable resource for law firms, legal professionals, and organizations operating within the legal sphere.

# PROFESSIONAL CERTIFICATE

Member of Nigeria Society of Engineers (MNSE) *2021*

Machine Learning Specialization Certificate by Stanford and Deeplearning.ai *2023*

Google Data Analytics Professional Certificate *2023*

Developing AI Applications with Python and Flask (IBM) *2024*

# SKILLS

Programming Languages and Tools: Python, HTML, TailwindCSS, Javascript, ReactC, C++, Java

Simulation tools and IDEs: Matlab, Simulink, Proteus, Packet Tracer, Anaconda ML and CV tools: openCV, Tesnorflow, Keras, PyTorch, Matplotlib, Numpy CAD and Analysis tools: Solidworks, Fusion360, AutoCAD,

Micro-computers: Raspberry pi, Arduino, Ardupilot, Navio2, STM32 Operating System: ROS, Ubuntu, Linux, Windows, IOS

# ACHEIVEMENTS AND AWARDS

* Winner WTN exhibition by Hardwarethings Nigeria. *2022*.

Link: <https://hardwarethings.org/super-display>

* Patent and Publication of Automated Handwashing Device for Covid-19 University of Ilorin.

*2020*.

Link: <https://thenationonlineng.net/covid-19-unilorin-student-invents-automated-hand-washing-machine/>

* 1st runner up, Robotics Category, Icreate Africa Skill Fest 2019.

Link: [https://www.instagram.com/p/CV7kQ\_4NqMK/?utm\_source=ig\_web\_copy\_link&igshid=MzRlODBiNWFlZA==](https://www.instagram.com/p/CV7kQ_4NqMK/?utm_source=ig_web_copy_link&igshid=MzRlODBiNWFlZA%3D%3D)

* Major League Hack Organizer by Microsoft *December 2019*
* Major League Hack Organizer by Microsoft *April 2020*
* President Computer Engineering Students Association (2019/2020) academic session.
* Finalist, Engineering Project Exhibition *2019.*
* Microsoft excel, word document, powerpoint Most improved male (Teenagers chapel) EMBC Ilorin. *2017.*