

ANDREW O. BENYEOGOR

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Research Interests

Technology-enhanced learning, instructional design in computer science education, low-cost educational technologies, accessible educational technology design, and learning analytics.

Education

Central Michigan University

Aug. 2021 – May 2023

M.Sc. in Information Systems (Lean Six Sigma, Enterprise Systems & Data Analytics) | GPA: 3.90 Mount Pleasant, MI

- Recipient of the **Dow SAP Award of Excellence** for outstanding performance and innovation in SAP ABAP.
- Served as **SAP ERPSim mentor** for student teams; contributed to teams placing first in two ERPSim competitions.
- Actively involved in SAP Student User Group (CMU Chapter), supporting student training and event coordination.

University of Benin

Mar. 2014 – Nov. 2018

B.Sc. in Agricultural Economics and Extension Services | GPA: 3.78

Edo State, Nigeria

- Undergraduate thesis: *Profitability Analysis of Catfish Farming in Ifo Local Government Area, Ogun State, Nigeria.*

Peer-Reviewed Publications

- [1] M. E. Chimezie, **A. Benyeogor**, A. Nkamnebe, and Y. Liu, “Trust as a mediator in nigerian e-commerce: Impacts on consumer behavior, product quality, and convenience”, *Open Journal of Business and Management*, vol. 13, no. 01, pp. 258–277, 2025. DOI: 10.4236/ojbm.2025.131016.
- [2] M. S. Benyeogor, **A. O. Benyeogor**, K. A. Olaiya, and P. Agumey, “Advancing embedded systems education: A pedagogical programming framework for smart system and control applications”, *SPC Journal of Education*, vol. 5, no. 1, pp. 1–22, 2024. [Online]. Available: <https://www.sciencepubco.com/index.php/JE>.
- [3] T. L. Igbigbi, M. S. Benyeogor, **A. O. Benyeogor**, K. P. Nnoli, A. R. Bhuiyan, and M. S. Aliero, “Desktop factory: A laboratory-scale multisignal RF/PID-based automation framework for industrial telematics and control experiments”, in *XVI Technologies Applied to Electronics Teaching Conference (TAEE)*, Malaga, Spain, 2024, pp. 1–9. DOI: 10.1109/TAEE59541.2024.10604887.
- [4] M. S. Benyeogor, T. L. Igbigbi, O. I. Lawal, U. T. Akpan, **A. O. Benyeogor**, N. M. Mbachu, K. P. Nnoli, M. S. Aliero, and A. Olatunbosun, “Development of microcontroller-based manipulator arm: A trilemma problem-solving framework for robotics and STEM education in Nigerian schools”, in *XVI Technologies Applied to Electronics Teaching Conference (TAEE)*, Malaga, Spain, 2024, pp. 1–8. DOI: 10.1109/TAEE59541.2024.10604968.
- [5] L. Ucheagu et al., “Measurement and analysis of no concentration by differential optical absorption spectroscopy: Towards enhanced air quality monitoring”, in *Sustainable and Green Technologies for Water and Environmental Management*, ser. World Sustainability Series, First Online: 23 April 2024, Springer Nature, 2024, pp. 147–159. DOI: 10.1007/978-3-031-52419-6_12. [Online]. Available: https://link.springer.com/chapter/10.1007/978-3-031-52419-6_12.
- [6] M. S. Benyeogor, A. A. Dahiru, **A. O. Benyeogor**, O. O. Olakanmi, A. Akintola, and B. A. Sodiq, “Prototyping and conceptualizing electric model vehicles to enhance automotive STEM education: Towards sustainable e-mobility”, in *IEEE German Education Conference (GECon)*, Berlin, Germany, Aug. 2023. [Online]. Available: <https://ieeexplore.ieee.org/document/10295128>.
- [7] **A. O. Benyeogor**, T. L. Igbigbi, M. S. Benyeogor, A. A. Dahiru, P. Agumey, and E. B. Uwak, “Algorithmic framework for analyzing and simulating multi-axial robotic transformations in spatial coordinates”, in *2023 Seventh IEEE International Conference on Robotic Computing (IRC)*, 2023, pp. 156–157. DOI: 10.1109/IRC59093.2023.00034.

- **Peer Reviewer, Springer Nature Journals**
Reviewed manuscript in intelligent and automated driving systems.

2025

Relevant Research and Teaching Experience

International Leadership of Texas, Aggieland High School
Computer Science and Engineering Teacher - Career Technical Education

August 2023 — Present
College Station, TX

- Instructed multiple high school courses over the past three years including:
 - *Fundamentals of Cybersecurity* – Networking, encryption, Malwares, Ethics, CIA Triad, Raspberry PI, Linux basics
 - *Fundamentals of Computer Science* - Computer organization, Number systems, Web design, digital literacy & ethics
 - *Computer Science I* – Algorithms, Python programming, GUI development with Tkinter...
 - *AP Computer Science A* – Object-oriented programming with Java & Algorithmic thinking...
 - *AP Computer Science Principles* – Creative development, data analysis, algorithms, computing systems & networks
 - *Principles of Applied Engineering* – Engineering history, Technical drawing, programming, Arduino based hands-on
 - *Robotics I* – VEX Robotics hardware assembly, VEX Python programming, competition strategy ..
- Mentored students in extracurriculars including competitive robotics teams and chess club
- Delivered differentiated instruction aligned with TEKS and College Board frameworks

Central Michigan University
Graduate Assistant

Jan. 2022 – Dec. 2022
Mount Pleasant, MI

- Mentored high school teams for SAP Enterprise Resource Planning (ERP) simulation training, and competitions.
- Assisted a professor in grading students assignments for BIS 638 Database Management for Business Systems.

Enthusia Private College
Mathematics Teacher (National Youth Service Corp)

Jan. 2019 – Sept. 2020
Ogun State, Nigeria

- Instructed Senior Secondary School students (SS1, SS2, SS3) in comprehensive mathematics curriculum including:
 - *Geometry & Trigonometry* – Angle relationships, trigonometric identities
 - *Sequences & Series* – Arithmetic and geometric progressions
- Prepared students for nigerian national standardized examinations (JAMB, WAEC) through regular revision sessions.

Selected Work Experience

Renmoney Microfinance Bank
Loan Sales Advisor (Analyst) - Sales & Marketing Unit

Oct. 2020 – July 2021
Lagos State, NG

- Used data analytics tools and techniques to analyze loan data trends, assess credit risk, and provide actionable insights.
- Conducted market research and competitive analysis to support strategic decision-making.
- Conducted regular audits and quality checks on financial data, ensuring accuracy and compliance.
- Providing Guidance on Loan Options: Supporting Clients in establishing Repayment Schedules

Songhai Delta Farm, Amukpe
Farm Management Intern - Feed Production & Inventory Unit

March 2017 – May 2017
Delta State, Nigeria

- Managed livestock feed processing operations from supply chain coordination to final production output
- Conducted quality inspections of incoming feed supplies, ensuring accuracy and compliance with farm standards
- Maintained detailed records of supply inventory, production metrics, and quality control data using Microsoft Excel
- Performed hands-on operational tasks in feed processing facility, contributing to daily production targets

Webinar Participation

TCEA Convention & Exposition

Texas Computer Education Association — February 3–7, 2024, Austin, Texas

Professional development conference focused on educational technology, pedagogy, and educational research with 800+ sessions and 450+ exhibitors.

Advanced Placement Summer Institute for Computer Science Principles

College Board — July 22–25, 2024, Texas Christian University, Fort Worth, Texas

Intensive professional development workshop for AP Computer Science Principles instructors emphasizing curriculum design, equity in computing education, and pedagogical best practices.

Paper Presentations

XVI TAEF Congress (Virtual Presentation)

Technology, Learning and Teaching of Electronics Association — June 26–28, 2024, Málaga, Spain

Presented the work: “Development of Microcontroller-Based Manipulator Arm: A Trilemma Problem-solving Framework for Robotics and STEM Education in Nigerian Schools”

Authors: Andrew O. Benyeogor, Muhammad S. Aliero, Kosisochukwu Nnoli, Mbadiwe Samuel Benyeogor, Tobore L. Igbigbi, Udoh T. Akpan, Olusegun I. Lawal, Nnaemeka M. Mbachu, Adeboye Olatunbosun

XVI TAEF Congress (Virtual Presentation)

Technology, Learning and Teaching of Electronics Association — June 26–28, 2024, Málaga, Spain

Presented the work: “Desktop Factory: A Laboratory-scale Multisignal RF/PID-based Automation Framework for Industrial Telematics and Control Experiments”

Authors: Andrew O. Benyeogor, Muhammad S. Aliero, Kosisochukwu Nnoli, Ataur Rahaman Bhuiyan, Mbadiwe Samuel Benyeogor, Tobore L. Igbigbi

Awards & Honors

Dow SAP Award of Excellence

Fall 2022

- Awarded for outstanding performance in SAP Configuration and ABAP coursework at Central Michigan University.
- Selected by a joint committee of CMU faculty and Dow employees.
- Competitive award open to all undergraduate and graduate students enrolled in the fall SAP/ABAP course.
- Recognized for an exceptional ABAP project that demonstrated advanced technical competence.

ERPsims Competition – Third Place

2022

- Finished third in a real-time SAP enterprise simulation competition.
- Demonstrated strong skills in decision-making, resource allocation, and cross-functional ERP strategy.
- Competed against student teams using SAP S/4HANA in a dynamic market scenario.

Relevant Technical Skills & Core Competencies

- **Core Competencies:** STEM curriculum design, CTE program development, project-based learning, instructional technology integration, robotics in education, learning analytics, educational research and assessment.
- **Programming & Data Analysis:** Python, Java, C++, R, SQL; scikit-learn, OpenCV, data mining, sentiment analysis, learning analytics.
- **Development Environments & Robotics:** PyCharm, VS Code, Jupyter Notebook, Arduino IDE, VEX V5, Micro:bit, Raspberry Pi; embedded systems for STEM education.
- **Visualization & Dashboards:** Tableau, Power BI, Google Colab, matplotlib, seaborn, ttkbootstrap.
- **Web Development & Version Control:** HTML/CSS, FastAPI, Django, NextJS; Git/GitHub.

Projects

SAP ABAP Payroll & Timesheet Management System | *SAP ABAP, SQL, SAP NetWeaver*

[GitHub](#)

- Designed and implemented an payroll and timesheet management system using SAP ABAP
- Created custom SAP programs for automated payroll calculations, timesheet validation, and employee data management
- Developed user-friendly transaction codes and ALV reports for HR department workflow optimization

Professional Memberships

- **Computer Science Teachers Association (CSTA)** *2023–Present*
- **Project Management Institute (PMI)** *2022–Present*

Professional Certifications

- **Tableau Desktop Specialist** *Earned: 2023*
- **Lean Six Sigma Green Belt** *Earned: 2022*
- **SAP Certified Application Associate – SAP TS410** *Earned: 2022*
- **SAP Certified Development Associate – ABAP** *Earned: 2023*
- **Project Management Professional (PMP)** *Earned: 2025*
- **Learning Analytics Fundamentals – ITCILO** *Earned: 2025*
- **Arduino Certification - Electronics & Physical Computing** *Earned: 2025*

Hobbies

Wildlife Observation, Aquaculture & Small-Scale Farming, Outdoor Exploration, Data Science Projects, Travelling, Sensor-based DIY Projects, Watching Documentaries, and Teaching