ABIDEMI AKINOLA

aaakinol@asu.edu | +2348113030013
https://abidemi-akinola.github.io/web/

EDUCATION

Master of Science in Mechanical Engineering, **Arizona State University (ASU), Tempe (Admitted)** Expected: May 2024

Bachelor of Science in Mechanical Engineering, **Obafemi Awolowo University (**GPA: 4.13/5.0) July 2019

Thesis: "Synthesis and Characterization of Coconut Mesocarp for Energy Absorption"
Relevant Courses: Mathematical Methods, Stress Analysis, Engineering Mechanics, Mechanics of Materials, Programming

SKILLS

Mechanical Testing (Instron 3690) | **Programming** (C++, Python, MATLAB) | **Finite Element Method** (Deal-ii, C++) | Computer Aided Design (AutoCAD, Inventor) | Computational **Material Modeling** (ABAQUS, DIGIMAT)

WORK EXPERIENCE

Systems Support Engineer (Information Systems), FedEx Aug 2021 – Present

- Onsite and remote installation, configuration, and support of FedEx computing hardware devices, servers, operating systems, and software applications for 250+ users across West Africa.
- Resolved over 95% of 1100+ support tickets within SLA timeframe using principles of root cause analysis and problem management for efficient troubleshooting of technical faults from 100+ end users.
- Developed IT asset Management System to help track maintenance cost, which now guides decisions on asset replacement.
- Improved Revenue by 35% of select express centers through IT infrastructure audit, effective maintenance, and staff training.
- Prepare monthly and quarterly summary incidence report and effective mitigation steps taken.

Research Assistant, Mechanical Engineering Department, Obafemi Awolowo University Mar 2019 – Sep 2019

- Researched computational and experimental material modeling and design.
- Research abstract accepted for presentation at the second International Conference of Mechanics of Advanced Materials and Structures (ICMAMS 2019).

Automotive Engineering Technician, A-List Autos NLTD Oct 2017 – Mar 2018

- Performed diagnostic tests on maintenance-bound automobiles to detect and locate electrical/mechanical faults,
- Worked on vehicle overhauling and maintenance of the facility's pneumatic systems.

CAD Trainee, Classic Systems InfoTech Sep 2013 – Jan 2014

- Designed layout plans and 3D models of buildings and structures using Auto-CAD.

TRAININGS/MOOC PROGRAMS

Management Consulting Graduate Program, Edu-Bridge Academy. Aug 2020 – Oct 2020

- Took courses on Business and Financial Modeling, Analysis, and Accounting, Case Study Analysis, Business Writing.
- Acquired expert-level skills in the use of Microsoft Excel and Power point.
- Created business plans for startups by building Financial/Accounting models.
- Evaluated financial ratios by analyzing the annual report of different companies.

The Finite Element Method for Problems in Physics (UMich Ann Arbor via Coursera) Oct 2020 – Apr 2021

- 45 hours of lectures equivalent to the Introductory Graduate Class at the Mechanical Engineering Department.
- Developed C++ based finite element method codes to model and solve 1-D,3-D elliptic, parabolic, and hyperbolic PDE problems using the Deal-ii Virtual Machine.
- The problem domain includes linearized elasticity; steady and unsteady state heat conduction and mass diffusion; linear elastodynamics.

Beginning C++ Programing from Beginning to Beyond (Udemy) Mar 2020 – Jan 2021

- Learned C++ OOP and Standard Template Library (STL) techniques for game, system, and application development
- Completed challenges ranging from working with raw pointers to implementing STL algorithms for better runtime efficiency

PROJECTS

Business and Financial Plan for a Health and Wellness Startup "Top Form"	2021
Thesis: "Synthesis and Characterization of Coconut Mesocarp for Energy Absorption"	2019
Alternative Material selection for automotive brake pads	2018

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Environmental Impact Assessment (EIA) of a bottling plant along major Nigerian Expressway	2018
Ambient temperature control system	2017

EXTRACURICCULAR/LEADERSHIP

Team Head, TOP-FORM - Edu-Bridge Academy Business Challenge	2020
United Nations Hult Prize Global Youth Challenge 2019	Dec. 2018
Editor-In-Chief, Institute of Electrical and Electronics Engineers (IEEE OAU Student Branch).	2016/2017
Assistant Publicity Secretary, Evangelical Christian Union (ECU), OAU.	2015/2016
IEEE-Xtreme Programming competition 9.0.	Oct. 2015
Project Head, Ambient temperature control system project	2017

NOTABLE AWARD

- Dean's Honors Award
- PTDF National Scholarship Award
- Inter-Faculty Tennis Medal
- Dean's Cup Soccer Tournament