ABIDEMI AKINOLA

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https://abidemi-akinola.github.io/web/

EDUCATION

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[grades]: Physics[A], Mathematical Methods[A], Vector Analysis[A], Dynamics[A], Machine Design[A], Engineering Drawing[A], Stress Analysis[A], Mechanics of Machines[A], Programming[A], Control Systems[B].

SKILLS

IT Support (Hardware, Networking, OS) | **Robotics** Modeling (MATLAB) | **Control** (Arduino, C, DHT Heat Sensors) | **Programming** (C/C++, Python, MATLAB) | **Finite Element Modeling** (Deal-ii, C++) | **Computer-Aided Design** (AutoCAD, Inventor) | **Mechanical Testing** (Instron 3690) | Computational **Material Modeling** (ABAQUS, DIGIMAT)

PROFESSIONAL COURSES/CERTIFICATION

- Aerial Robotics, Robotics Specialization, University of Pennsylvania, Coursera 2022
- Technical Support Fundamentals, Google IT Support Professional Certificate, Google, Coursera 2022

WORK EXPERIENCE

Technical Head of IT, Lagos Island Operations (Information Systems), **FedEx** Aug 2021 – Present

- Performed root cause analysis and re-engineered the network infrastructure reducing the network latency and thereby cutting down logistical delay due to scan uploads by about 100%.
- Improved Revenue by 35% of select express centers through IT infrastructure audits, effective maintenance, and staff training.
- Coordinated with Codeware in the digital automation of the logistics operations and financial processes of FedEx in the region using the MS Dynamics framework, thus improving process efficiency, customer satisfaction, and credit collection.

Systems Support Engineer (Information Systems), **FedEx** Aug 2021 – May 2022

- 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 the 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.
- Prepare monthly and quarterly summary incidence reports and effective mitigation steps taken.

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

- Worked on the computational and experimental characterization of low-cost biomaterials for energy absorption in injury protection wearables such as football helmets.
- 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.

TRAINING/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 PowerPoint.
- Created business plans for startups by building Financial/Accounting models.
- Evaluated financial ratios by analyzing the annual report of different companies.

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The Finite Element Method for Problems in Physics (Univ. of Michigan, 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 electrodynamics.

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

EXTRACURRICULAR/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