

OBJECTIVE	To start a career in a competitive organization that will challenge me to further my experience and knowledge for the mutual interest of the organization and myself
KEY SKILLS & STRENGTHS	Good skill in python programming and machine learning Good expertise in software like Microsoft Office (Word, Excel, PowerPoint) with good presentation skills as a result of various office work requirements Good skills in laboratory equipment assembly and experimentation Good skills in AutoDesk AutoCAD for various parts design Good expertise in Fusion 360 software for modelling and simulation of systems
EXPERIENCE	SENIOR RESEARCH LAB TECHNICIAN, UNIVERSITY OF ENERGY AND NATURAL RESOURCES, SUNYANI-GHANA. April, 2021 to date Teach AutoDesk AutoCAD, and Fusion 360 to Agricultural Engineering, Renewable Energy Engineering and Electrical Engineering students. Assist students with research project for both Mechanical and Agricultural Engineering Dept. Teach and conduct lab experiments including the vibration trainer, stain gauge training system, buckling behaviors of bar, torsional pendulum experiment, convective heat transfer in systems for students in the Mechanical and Manufacturing Engineering Department, Renewable Energy Engineering Department and Agricultural and Bioresources Engineering Department of the university VOLUNTARY RESEARCH LAB TECHNICIAN, UNIVERSITY OF ENERGY AND NATURAL RESOURCES, SUNYANI. October, 2019 to 2020 Help conduct lab experiments such as inclined plane, torsional pendulum, flywheel and falling weight, and others in the Mechanical and Manufacturing Engineering Department, and Agricultural and Bioresources Engineering Department of the university. Also helped supervised students to design and fabricate a test rig for vapour compression refrigeration cycle demonstration device for the lab. MECHANICAL TECHNICIAN, NEWMONT (HARMOTECH- CONTRACT), AHAFO KENYASI. December, 2020- April, 2021 Crusher Mechanical Technician and was part of the team that accomplished the following tasks: 1. Changed and replaced worn out bearings 2. Conveyor maintenance. 3. Changed and replaced worn out gear sprocket at oil lube. 4. Replaced damaged impact bed with new ones 5. Install new submersible pump at tailings 6. Replaced damaged boost pumps with new ones 7. Performed monthly maintenance on crusher mantle 8. Removed damaged MMD sizer shaft and installed new one at Oxide crusher.

CONDITION MONITORING TECHNICIAN, NEWMONT (HARMOTECH- SHUTDOWN), AHAFO KENYASI.

November, 2020

Condition monitoring with the following tasks accomplished: 1. Took oil sample from pebble dewatering screen gear box. 2. Cleaning and changing oil and oil filters at the oil lube. 3. Inspected gear boxes, breathers, and silica gel filters

MECHANIC (PROCESSING PLANT), NEWMONT (HARMOTECH- SHUTDOWN), AHAFO KENYASI.

October, 2020

Conveyor maintenance with the following tasks accomplished: 1. Changed and replaced damaged rollers including side, carrying, return, impact and tracking rollers. 2. Changed and replaced damaged roller brackets, and frames even sometimes welding and grinding rollers to fit.

NATIONAL SERVICE PERSON, UNIVERSITY OF ENERGY AND NATURAL RESOURCES, SUNYANI.

September, 2018 to August, 2019

Helped taught and assessed students in the mechanical and manufacturing engineering and petroleum engineering departments of the university on courses such as **strength of materials, design of machine elements, heat transfer and fluid mechanics**

EXTRA CLASSES TEACHING

2015- to date

Conducting extra classes for University of Cape Coast distance learning students in **mathematics for senior high school teachers I, II, III and IV**. And also conducting one-on-one teaching service for junior high school and senior high school

EDUCATION

REGIONAL CENTER FOR ENERGY AND ENVIRONMENTAL SUSTAINABILITY (RCEES) /UENR

Msc. Sustainable Energy Engineering and Management in the Energy and Petroleum Department of the University of Energy and Natural Resources.

Project Topic: Modelling, Simulation and Construction of a Hybrid Vapour Absorption Refrigeration System Using Libr as Working Fluids.

UNIVERSITY OF ENERGY AND NATURAL RESOURCES, SUNYANI-GHANA

Bsc. Agricultural engineering in the mechanical and manufacturing department, September 2014- August 2018. Attained a GPA of 3.47 (second class upper honors division) and emerging first of a class of about 40

THEOCRACY SENIOR HIGH SCHOOL, OFANKOR-ACCRA.

General Science, October 2010 – October 2013. A salutatorian of a class of 15

SAPPELLIGA BASIC AND JUNIOR HIGH SCHOOL, BAWKU WEST DISTRICT-GHANA.

Student, September, 2007 – May, 2010

A valedictorian of a class of about 55

LEADERSHIP

Course Representative

Agricultural Engineering in the Department of mechanical and manufacturing engineering from 2014-2018

Dining Hall and Dormitory Prefect

Theocracy senior high school, Ofankor-Accra (2012/2013 academic year)

**ACADEMICS &
EXTRA-
CURRICULAR
ACHIEVEMENTS**

Machine learning with AI Saturdays Lagos, 6th August 2023 to date

Certificate of completion in Computational Neuroscience in Neuromatch Academy (July, 2023)

Publications

1. Paper title: Status of Agricultural Mechanization in Ghana: Insight From Farmers' Perception, Population and Non-Agricultural Sector Growth, Hindawi (2022). Link: <https://ops.hindawi.com/author/2094276/>

2. Paper Title: Energy Analysis of Poultry Housing in Ghana using Artificial Neural Networks, Scientific African (2022)

3. Paper Title: Evaluation of a Locally Manufactured Maize Thresher in Sunyani West Municipality of Ghana, African Journal of Applied Research (2020)

Final year Thesis- for the Award of Bachelor of Science Degree in Agricultural Engineering (October 2017- May 2018)

Topic-Field Evaluation of a Locally Manufactured Motorized Maize Thresher at Odomasi Maize Market

Certificate on Tractor Operation and Maintenance-Ministry of Food and Agriculture (MoFA) – Sunyani. Human Resource Development and Management Directorate

Voluntarism

INTEREST

Concerned with research and tackling real life engineering problems.

Travelling, academics, and football (watching and playing)

LANGUAGE

Speaks fluent English, Pidgin (West Africa), Twi, Frafra and Kusaal

REFERENCES

DR. GILBERT A. AKOLGO

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