

# **TWITCHELL ADDAI**

Mechanical Engineer

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## **PROFESSIONAL SUMMARY**

Hardworking Mechanical Engineer with 6 years' experience performing diverse technical and maintenance roles. My academic foundation, combined with hands-on experience, has equipped me with a comprehensive understanding of mechanical systems, manufacturing processes, and production management principles.

I am a self-motivated person filled with passion and determination to work hard in order to fulfill tasks and achieve desired goals.

## **INDUSTRIAL EXPERIENCE**

### **ASSISTANT SHIFT MILLER**

*July 2024 – till date*

FLOUR MILLS OF GHANA LIMITED, TEMA

- Monitors milling equipment and makes necessary adjustments to obtain maximum flour production and quality.
- Makes necessary repairs to grain sifters, sieves, conveyor systems and grain elevators.
- Periodically weigh and dose extracted flour with chemical additives and fortificants and make necessary adjustments.

### **MAINTENANCE ENGINEER**

*May 2023 – till date*

S.R.G. PLASTICS MANUFACTURING LTD, TEMA

- Perform routine maintenance, troubleshooting, and repair of mechanical equipment used in plastics manufacturing processes, such as extruders, injection molding machines, and conveyor systems.

### **TECHNICAL ENGINEER**

*Jan 2020 – Aug 2022*

LOTUS GLOBAL PETROLEUM GHANA LTD, TEMA

- Assisted Operations Manager with vessel tracking and discharge operations.
- Ensuring that the right quality and quantity of oil products, along with the required financial and bank instruments / verbiage are accurate during importation arrangements.
- Monitoring and maintenance of computer hardware, software and networking systems.

### **BOILER TECHNICIAN AND OPERATOR**

*Sept 2017 – Feb 2019*

PIONEER FOOD CANNERY LTD., TEMA

- Daily operation of Fire tube boilers to generate steam for the factory.
- Maintenance of boiler mountings and auxiliary units, such as cleaning of atomising cup on burners, fixing air locks on feed water pumps, proper functioning of fuel (RFO and Diesel) discharge pumps, circulating pumps and steam traps.
- Performing chemical treatment of boiler feed water using concentrated Sodium Bisulphite and concentrated Potassium Hydroxide.

## **EDUCATION**

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**Kwame Nkrumah University of Science and Technology, Kumasi**

***Sept 2013 – July 2017***

*BSc. Mechanical Engineering*

- *Specialisation: Design, Manufacturing & Production*
- *Thesis: Design of A Plant Layout for Gas Cylinder Manufacturing*

**NIIT, Tema**

***June 2013 – Aug 2013***

*Certified Computer Hardware Technician*

## **RESEARCH INTERESTS**

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- Creation of Large Language models in low-resource (Ghanaian) languages.

## **KEY SKILLS**

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- CAD and 3D Modelling with AutoCAD and Sketchup.
- Web Development, Computer Hardware and Networking.
- Python and MATLAB programming languages.
- Cloud Computing.
- Machine Learning, Computer Vision and Model training.

## **CONFERENCES**

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|--|------|
| • (Virtual) Youth in AI: AI Applications in Modern Agriculture | 2024 |
| • (Virtual) Youth in AI Summit                                 | 2024 |
| • (Virtual) Ghana Data Science Summit (IndabaX Ghana)          | 2024 |