

EFUA AMISSAH-MENSAH

Accra, Ghana

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Summary

I am a driven biomedical engineer with proven expertise in medical device troubleshooting and cross-functional teamwork. Excelled in training healthcare providers on cutting-edge medical equipment, significantly enhancing operational efficiency. Skilled in preventive maintenance and problem-solving, with a track record of mentoring staff and improving equipment reliability. I am also skilled in interdisciplinary collaboration, and adapting to new technologies swiftly. I am a strong communicator with ability to translate complex technical information into accessible language for cross-functional teams.

I have also gained expertise in building functional websites using programming languages such as JavaScript, CSS and HTML.

Education

BACHELOR OF SCIENCE : BIOMEDICAL ENGINEERING

Kwame Nkrumah University of Science and Technology

October 2019 – November 2023

Kumasi, Ghana.

Second Class Honours

WASSCE/SSCE : GENERAL SCIENCE

Aburi Girls' Senior High School

October 2016 – June 2019

BASIC HIGH SCHOOL DIPLOMA

Services Primary and Junior High School

September 2007 – June 2016

Relevant Coursework

Bioinstrumentation, Medical Imaging, Calculus and Numerical Analysis, Biomechanics, Cell Biology, Anatomy and Physiology, Medical Device Regulation, Biosignal Processing and Analysis, Research Methods, Biomedical Engineering Design.

Project Work

Kwame Nkrumah University of Science and Technology

Implementation of AI for ear infection diagnosis.

January 2023 November2023

Skills and Abilities

- Medical device troubleshooting
- Medical equipment calibration
- Cross-functional teamwork
- Data entry (inventory and Microsoft office)
- Training and mentoring
- Preventive Maintenance
- Multitasking capacity
- Problem-solving

Work Experience

JUNIOR WEB DEVELOPER TRAINEE : MEST GHANA, NEW GENERATION

APRIL2025 - PRESENT

- Gained familiarity with front-end development languages such as JavaScript, HTML and CSS.
- Created websites using said languages which were functional.
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BIOMEDICAL ENGINEERING CONTRACT STAFF: UNIVERSITY OF GHANA MEDICAL CENTRE

OCTOBER 2024 – NOVEMBER 2024

- Assisted in the installation and training of healthcare providers for a Central Monitoring System for cardiotocography.
- Assisted in the installation and training of healthcare providers for a neonatal ventilator.
- I assisted with the installation of new software for ventilators.
- Trained new National Service personnel in troubleshooting and maintenance of medical equipment.
- Assisted with the training of new healthcare providers on patient monitors and electrocardiogram machine use.

NATIONAL SERVICE PERSONNEL: UNIVERSITY OF GHANA MEDICAL CENTRE

NOVEMBER 2023 – SEPTEMBER 2024

- Helped with the delivery of oxygen for the transportation of patients to various wards.
- Assisted with the setup of High Dependency Units (HDU) in various wards.
- Provided technical support to intensive care units and operating theatres during certain cases involving laparoscopy, laser, and ballistic procedures.
- Trained healthcare providers on the proper use of certain equipment, such as patient monitors, syringes, infusion pumps, anaesthesia machines, and ventilators.
- Supervised teams of interns and provided technical guidance in troubleshooting, training, and maintenance of medical equipment.
- Troubleshooting and planned preventive maintenance on dialysis machines, reverse osmosis water treatments, autoclave machines, and dental chairs.
- Assisted in the taking and compilation of the inventory of medical equipment in the hospital.
- Underwent training for Basic Life Support (BLS), as well as fire-fighting training.
- Performed planned preventive maintenance on various machines, such as patient monitors, syringe and infusion pumps, suction machines, neonatal incubators, ventilators, cardiotocography machines, as well as spot vital signs monitors, and infrared thermometers.
- Compiled reports on various maintenance and troubleshooting exercises to obtain maximum medical equipment care.

BIOMEDICAL ENGINEERING INTERN: UNIVERSITY OF GHANA MEDICAL CENTRE

NOVEMBER 2022 – DECEMBER 2022

- I learned basic troubleshooting and maintenance skills on medical equipment, such as patient monitors, spot vital signs monitors, electrocardiogram machines, and suction machines.
- Participated in detailed presentations on various medical equipment.
- Utilized Excel worksheets to manage and log inventory.
- Cultivated positive work ethics, such as punctuality, teamwork, and developed good relationships with colleagues and supervisors.
- Participated in trainings and seminars, which were aimed at enhancing proper utilization of medical equipment.

Languages

- English (Advanced levels of reading, writing, speaking and comprehension)
- French (Beginner levels of reading, writing and speaking)
- Twi (Intermediate levels of reading and writing)

Positions Held

- Media Club Graphic Designer – Aburi Girls’ Secondary School (2019)
- Health Officer – Services Primary Junior High School (2016)

REFERENCES

Engr. Philip Nii Nmai Brown-Odoi
 Senior Clinical Engineering Manager
 The Bank Hospital, Accra Ghana
 0242668267

Engr. Beatrice Abena Yeboah
 Senior Clinical Engineering Manager
 University of Ghana Medical Centre
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