Kwaku Sarfo Akyena

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SUMMARY OF QUALIFICATIONS

- A detail-oriented Computer Engineering graduate with expertise in designing website applications, programming and creating databases using HTML, Ruby, C++, C and Java, MySQL respectively.
- A mechanically oriented Fiber Optic Technician with high problem solving skills and a strong research experience in the use of (OTDR) Optical Time Domain Reflectometer in detecting faults in fiber transmission.
- 5+ years of experience using Microsoft Office Suite (Excel,Word and Powerpoint) in organizing data,preparing maintenance reports and preparing quarterly KPI presentations to stakeholders.
- An adaptable field systems engineer with experience in performing system diagnostics, tuning software and hardware configuration, and performing field verification.

EDUCATION

University of Ghana, Accra   **Sep 2017 - Nov 2021**
- Bachelor of Science Degree in Computer Engineering
- Graduated with Second Class Upper
- Relevant courses: Advanced Computer Architecture,Artificial Intelligence,Computer networks,Object Oriented Programming

(IPMC)Intercom Programming & Manufacturing Co, Accra   **Jul 2017 - Sep 2017**
- Software Engineering

RELEVANT ACADEMIC PROJECTS
Development of a Web and mobile app to reduce overcrowding at health insurance sectors   **Jul 2018**
University of Ghana, Accra
- A Web app and mobile app was developed using java,javascript,css,Html,MySQL and php in order to collect personal data of National Health Insurance holders quickly and efficiently.

Fault detection in long haul Fiber transmission   **Jul 2021**
University of Ghana, Accra
- Authored a research paper titled "Fault detection using Integrated Optical-Time Domain Reflectometer in long haul Fiber transmission" to develop a system ensuring quick detection of faults in fiber links, minimal service disruption in fiber links and to have an idea of abnormalities in the optical cable over a long distance.
- The system consists of the Optical-Time Domain Reflectometer connected to the fiber link cables via launch cables. Regarding the scope of the project, the standard measurements were from verified standard

fiber optic association. To start the process, necessary parameters such as frequency, pulse width and time aid in the detection of faults on a new link.

- It was observed that without the use of Optical-Time Domain Reflectometers, testing the integrity of the cable can be difficult .

WORK EXPERIENCES

Field Monitoring Engineer | National Communications Authority | Ghana   **Oct 2021 - Present**
- Providing support for all things IT ranging from network layout and customization to server and end-user system administration.
- Performing regular maintenance support, installation and systems administration reducing system errors by 40%
- Collaborating with other technicians in using the tool Nemo Invex and Nemo WindCatcher software in capturing voice and data samples across Ghana in all regions and processing voice test samples to analyze the Quality of Service of Network Telcos in Ghana respectively.
- Partaking in quarterly drive tests to check network compliance with licenses issued by the Authority in district capitals in selected regions. Generated reports from the drive test which are publicized on NCA's website for the country's view on performance of each telco in Ghana. This helped increase the Company's revenue by 15 %.
- Quarterly check ups of Base Transceiver Stations (BTS) mounted by Network Telcos in Ghana.

Fiber Technician | Stepworth Enterprise | Ghana   **Feb 2021 - Sep 2021**
- Performed optical test and characterization for fiber optic device modules including visual inspection, geometry, insertion loss and return loss testing
- Inspected and tested lines or cables, recording and analyzing test results, to assess transmission characteristics and locate faults or malfunctions.
- Assembled fiber optical components, specifically the "optical power-monitoring module", utilizing alignment mechanisms, baking procedures, and ultra violet epoxy curing techniques improving the accuracy and rigidity of systems by 60 percent.

VOLUNTEERING EXPERIENCE

JCR | Junior Common Room Publicity Committee Head   **July 2021 - Nov 2021**
- **JCR publicity Committee Head of African Uuion Hall(Pent) , University Of Ghana**
- Maintaining the daily operations of the front desk including all administrative work, telephone correspondence, database entry and public relations.
- Organizing and participating in community outreach events increasing the awareness of the importance of STEM education for females.

- Coordinating the planning, developing and implementing programs, policies, and procedures for assigned areas to ensure the most effective utilization of resources to support the vision and mission of the organization.
- Organized and Distributed Stationary to the 4000 members of the African Union Hall to Value the Importance of the Junior Common Room.

Co-Founder | Ladies Aid Ghana Prestige Foundation|Ghana   **Jan 2021 - Present**
- Maintaining the daily operations of the front desk including all administrative work, telephone correspondence, database entry and public relations.
- Organizing and participating in community outreach events increasing the awareness of the importance of STEM education for females.
- Coordinating the planning, developing and implementing programs, policies, and procedures for assigned areas to ensure the most effective utilization of resources to support the vision and mission of the organization.

Referees

- **Mr. Isaac Boateng**

    Deputy Director of Regulatory Administration

    National Communications Authority Headquarters

    NCA Tower, KIA, 6 Airport By-pass Rd, Accra

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- **Mr Nii Ayitey Komey**

    Senior Manager of Field Monitoring Unit

    National Communications Authority Headquarters.

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- **Dr. Isaac Adjaye Aboagye**

    Senior Lecturer

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