EMMANUEL MIEZAH **EGOTE**

COMPUTER ENGINEERING GRADUATE

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SUMMARY OF QUALIFICATIONS

- Experienced in managing Local Area Networks (LANs) and Wireless Networks, ensuring seamless connectivity and optimal network performance.
- Experience in using Microsoft Visio to design network topology diagrams.
- Proficient in utilizing Cisco Packet Tracer and Microsoft Visio for network design and planning, as well as Microsoft Office Word, Excel, and PowerPoint for documentation and presentations.
- Competent in DHCP and DNS configuration for efficient IP address management and domain name resolution.
- Proficient in hardware and software installation, adept at troubleshooting and diagnostics.
- Experience in using Logisim to design and simulate logic circuits including 16-bit microprocessor and 4-bit binary adder/subtractor.
- Skilled in employing Proteus software for designing and simulating circuits, including LCD interfacing with 8051 microcontroller circuit and glucometer circuit.
- Knowledge of MATLAB for data visualization, matrix and vector operations, and numerical analysis.
- Experience in Git and GitHub to manage version control and facilitate team collaboration.
- Experienced in applying regression models to analyze relationships between variables and make data-driven predictions and decisions. Applied in thesis to determine the relationship between output voltage and blood glucose concentration.

EDUCATION

AUGUST 2018 – SEPTEMBER 2022
BACHELOR OF SCIENCE IN COMPUTER ENGINEERING,

KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (KNUST), KUMASI, GHANA
GPA: 3.65/4.00
Project Title: Remote Diabetes Management System – an IoT Based Project
Project Supervisor: Dr. E. T. Tchao.

RESEARCH EXPERIENCE

JULY – SEPTEMBER 2023
UNIVERSITY INFORMATION TECHNOLOGY SERVICES - KNUST PROJECT,

Project Title: Inventory and Control of Hardware Assets (College of Agriculture and Natural Resources section)
- Recorded the locations of offices using the university's PCs on a spreadsheet.
- Added new locations and generated asset codes on the Asset Code Generator system.
- Renamed PCs to the 15-character codes generated and installed the FusionInventory agent software.

MARCH – SEPTEMBER 2022

UNDERGRADUATE RESEARCH THESIS,

Project Title: Remote Diabetes Management System – an IoT Based Project

Project Supervisor: Dr. E. T. Tchao.

- Developed a portable non-invasive blood glucose monitoring device using near-infrared LED technology, offering an alternative to invasive methods for diabetes management.
- Conducted regression analysis on collected data to analyze the relationship between the output voltage and blood glucose concentration readings of the standard meter.
- Utilized Proteus simulation software to validate system functionality, analyzing circuit behavior and confirming the accuracy of data processing algorithms.
- Used DesignSpark Mechanical software to design a 3D-printed placeholder to securely position NIR LED and photodiode.
- Wrote Arduino code for sensor data collection, processing and interpretation.
- Integrated hardware components, including Arduino microcontroller, HC-05 Bluetooth module, and 16×2 LCD with I2C backpack, for seamless functionality.

JULY – AUGUST 2019

ENGINEERING IN SOCIETY PROJECT,

Project Title: Inefficiency of Paper-Based Medical Records at Tophill Hospital

- Designed and implemented surveys to gather primary data from participants, ensuring a diverse and representative sample.
- Utilized various data collection methods, including interviews and questionnaires, to gather qualitative and quantitative data.
- Employed Microsoft Excel to organize collected data in an understandable order to ease analysis.
- Analyzed survey data using appropriate statistical methods and visualization techniques like tables, charts, and graphs to derive meaningful insights.
- Prepared a detailed report and presentation summarizing research findings and emphasizing actionable recommendations.

WORK EXPERIENCE

NOVEMBER 2022 – NOVEMBER 2023

NETWORK TECHNICIAN (NATIONAL SERVICE PERSONNEL),

UNIVERSITY INFORMATION TECHNOLOGY SERVICES - KNUST, KUMASI, GHANA

- Designed network topology diagrams with Microsoft Visio.
- Executed day-to-day network administration, maintenance, and support.
- Installed, configured and supported computer and network systems to ensure that they function properly and reliably.
- Maintained network hardware and software and monitored the network to ensure end-user network availability.
- Responded to user-reported faults and malfunctions by providing troubleshooting services.
- Gave easy-to-understand explanations of technology-related details to users.

OCTOBER 2021 – NOVEMBER 2021

IT TECHNICIAN INTERN,

ICT UNIT, KOMFO ANOKYE TEACHING HOSPITAL, KUMASI, GHANA

- Installed and made minor repairs to peripheral equipment, software, and hardware while adhering to installation and design guidelines.
- Prepared new computers for integration into the networks and systems of the company.
- Performed troubleshooting to resolve computer hardware and software malfunctions.
- Installed, maintained, and repaired internal computer hardware and various software applications.
- Provided clear explanations of technical information to non-technical users.

MAY 2021 – PRESENT

WEBSITE/ SOCIAL MEDIA MANAGER,

MIEZAH COLLEGE OF HEALTH, KUMASI, GHANA

- Keeps track of the college website's blog posts, media files, reviews, and web pages.
- Assists in creating new website content and auditing existing content to identify areas for improvement.
- Configured and acquired the website's domain name. Annually renews the domain name.
- Assists with marketing campaigns on social media and other platforms. Analyzes and reports on social media and online marketing campaign results.
- Communicates with followers in order to respond quickly to questions and monitor reviews.
- Uses the domain name of the college website to create professional emails for staff and offices.

CERTIFICATIONS

AUGUST 2022 – NO EXPIRATION DATE
NETWORKING ESSENTIALS
CISCO

OCTOBER 2021 – NO EXPIRATION DATE
WEBSITE DEVELOPMENT (WORDPRESS)
SIDE HUSTLE

SKILLS

- Hardware and software installation
- Troubleshooting and Diagnostics
- IPv4 and IPv6 Fundamentals
- Ethernet Networks
- Local Area Network (LAN)
- Wireless Networking
- Help desk support
- Cisco Packet Tracer and Microsoft Visio
- Microsoft Office Word, Excel, and PowerPoint

- DHCP and DNS
- C language
- MySQL
- Logisim
- Proteus simulation software
- Git and GitHub
- MATLAB