

Faisal Aduko Wahabu

1 University Ave, Berekuso |Ghanaian
+233 545968371 | faisaladuko@gmail.com:
www.linkedin.com/in/FAISALWAHABU

EDUCATION

Ashesi University

Electrical and Electronic Engineering

Berekuso, Eastern Region, Ghana

Graduation Date: **June (2021)**

Navrongo Senior High

General Science (WASSCE)

Navrongo, Upper East Region, Ghana

Sept 2013 – July 2016

Relevant Courses Taken: Digital and Analog Signal Processing in Telecommunication, Data Science, Digital Systems Design, Applied Programming for Engineers (Mat Lab), Computer Programming for Engineers (Python), Statistics for Engineers, Embedded Systems, Computer Networks and Data Communication, Communication Systems, Circuits and Electronics, Control Systems, Leadership for Engineers, Project Management, Introductory French, etcetera.

ACHIEVEMENTS AND AWARDS

Scholar, The MasterCard Foundation Scholars Program Scholarship – Ashesi University	2017 – 2021
Dean's List (GPA of 3.5 and above) – Ashesi University	2018 – 2019
Participant , 2016 Edition of the National Math and Science Quiz	2016
Best student , Navrongo Senior High	2016
Best B.E.C.E. Pupil , Bongo District	2013

WORK EXPERIENCES

Aya Data – Ghana

July 2021 – Present

Data Specialist

- Preprocess data for Machine Learning projects.
- Conduct Quality Assurance test on data.
- Prepare Proof of Concept on relevant Computer Vision use cases.

Green Honey Company Limited – Ghana

June 2020 – Aug 2020

Remote Intern

- Worked as a frontend web developer.
- Developed data presentation and Analytics models.

Warren Library, Ashesi University – Ghana

Sep 2020 – Dec 2020

Work Study

- Helped in cataloging and safeguarding books and electronic devices.
- Helped Ensured students' needs were met in the library.

Mesika Limited – Accra, Ghana

July 2019 – Aug 2019

Summer Intern

- Worked as a network administrator, improving the network architecture and efficiency in the company.
- Configured routers into access points and repeaters.
- Helped in monitoring the servers' sites of client companies.

Ghana Climate Innovation Centre – Accra, Ghana

June 2019 – July 2019

Research Intern

- Worked with Mckintorch Africa, a start-up company under GCIC's incubation program.
- Helped in creating arts from plastic waste.
- Took part in running the business.

PROJECTS AND RESEARCH

Capstone Project

April 2021

- Combining Visual-Based Localization with Received Signal Strength Indicator for an Augmented Reality Indoor Navigation Application.
- Explored the Bayesian Filters for Sensor Fusion
- Incorporated multiuser experience where an indoor space is scanned for its visual & RSSI landmarks, store this data on a database and it's retrievable for all other users within the same space for navigation.

Digital and Analog Signal Processing in Telecommunications

Nov 2020

- Filtered noise from an audio and timeseries signals.
- Performed autocorrelation to remove echoes from an audio signal.

Automation of a Robotic Vehicle

Nov 2020

- Used FRDM-KL25Z controlled system with Assembly programming in Keil μ Vision.
- Ensured concurrency and responsiveness of the embedded system developed.

Assistive Technology Makerspace

July 2019

- Developed a six-buttoned affordable keyboard for the visually impaired.

An automated Robotic Arm with a Conveyor Belt

Summer 2018

- This project was designed to autonomously sort coloured objects on a conveyor belt unto different containers.
- In a group of four we used SolidWorks to design and Cura to 3-D print the robotic parts
- Programmed the Servo motors and sensors using Arduino.

Statistics for Engineers

Fall 2018

- In a group of two, we produced an improved plant pigment ink marker pen and then used statistical analysis with R to confirm our initial hypothesis

Foundation of Design and Entrepreneurship

2017 - 2018

- In a group of ten, we created a venture to help increase the patronage of tourism by Ghanaians and help the industry sell out internationally using our specially created website.

CO-CURRICULAR ACTIVITIES

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|---|---------------------------------|
| ▪ Research Lead, Sankofa Fellowship, Ashesi University | August 2019 – April 2021 |
| ▪ President, Ashesi Muslim Community. | Jan 2020 – April 2021 |
| ▪ Co-founder of TypTek, Assistive Technology Makerspace Fellow | July 2019 - Present |
| ▪ Tutor And mentor, Bowney Initiative, Ashesi University. | Jan, 2017 - 2020 |
| ▪ Ashesi Robotics Experience, Ashesi University. | 2017 - 2018 |
| ▪ A Member of the Red Cross Society. | 2015 – 2016 |

SKILLS

- Programming Languages: Python, C#, C, Mat lab, HTML, JavaScript, Assembly programming.
- Proficient in Mat lab simulations (Sims cape, Simulink and sim-mechanics) for control systems.
- Proficient in using R for statistical and Data analysis.
- Intermediate knowledge in setting up networks.

* WASSCE – West African Senior School Certificate Examination

* BECE – Basic Education Certificate Examination

* RSSI – Received Signal Strength Indicator