**KING-FREDERICK AKYEA**

P.O.BOX EL 364, CAPE COAST, (+233)-26-476-5158

Email: [akyeaking2007@gmail.com](mailto:akyeaking2007@gmail.com) LinkedIn: [www.linkedin.com/in/king-](http://www.linkedin.com/in/king-) AkyeaGitHubRepo: https://github.com/King-Frederick-Akyea

# EDUCATION

**Ashesi University –** Berekuso, GHANAGraduating 2029

**Major: Bsc.**Computer Science

**Relevant Coursework:** Object-Oriented Programming, Algorithm and Data Structures (Java and Python), Intermediate Design and Programming for Web (HTML, CSS, JAVASCRIPT), Introduction to Embedded Systems, Introduction to Database Systems.

**Adisadel College –** Cape coast, GHANAGraduated September, 2024

**Major: General Science**

**Relevant Coursework:** Elective ICT, Physics, Elective Mathematics.

**University Junior High School–** Cape coast, GHANAGraduated November, 2021

# EXPERIENCE

**Exodus Technologies** – Accra, Ghana. January 2023- Present

*Founder, Chief Executive Officer.*

* Built an I.O.T. device to help manage waste, recycle it, and change it to better products for use.
* Built a website for the company.

**First Lego League** – Accra, Ghana. (Competition) April 2024

*Team Leader*

* Worked on an irrigation robot.
* Participated in the Spike Challenge.
* Worked with a team and won the best team collaboration.

**Flash Challenge** – Cape Coast, Ghana. (Msr. labs) January 2024

*Programmer and Builder*

* Built and programmed a revolutionary traffic light using Arduino
* Winners of the competition

**STEMNOVATION** – Cape Coast, Ghana. (Challenge) August 2024

*Team leader.*

* Built and Programmed “Jezoid”. A floating bot used to collect waste on water
* Built a filtration system

**Ghana Robotics Competition** – Accra, Ghana. (Firefly IO) September, 2023

*Programmer.*

* Programmed the Xplore Bot in micro python.
* 2nd runner up

**Firefly IO** – Accra, Ghana. August, 2024

*Volunteer*

* Worked in a team to help organize Ghana Robotics Competition.

# PROJECTS

● Built a responsive website for Exodus Technologies.

# Jezoid

● Built and programmed a floating robot that can collect waste on the surface of water bodies using Arduino. It is controlled via Bluetooth on your phone.

# Sprinkle Bot

● Built and programmed a rover that automatically sprinkles water to irrigate farms using sensors such as soil moisture sensor to detect when the soil is dry. Programmed using Arduino.

# Soil Health Monitor

● Built and programmed a system that helps check the health of the soil and boost crop growth. It uses a PH sensor and a soil moisture sensor. Programmed in Arduino.

# SKILLS AND INTERESTS

* **Programming languages**: Python, Java, C++, JavaScript, C, Java Springboot
* **Worked with**: Micro Python, C, JavaScript, HTML, CSS, Arduino, C++, Python, Java Springboot
* **Interested in**: Robotics, Entrepreneurship, Design Thinking, Waste Management, Web Development, and Machine Learning

# CAMPUS INVOLVEMENT

* **Energy Commission Renewable Energy Competition**, *Participant*, Adisadel College (Ghana), May 2024
* **Ashesi Innovation Experience**, *Participant*, Ashesi University (Ghana), August 2022