

# Kwame Danso Osei-Ansah

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## Skills

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**Programming:** C/C++, Python, HTML/CSS

**Softwares:** VS Code, Matlab, Arduino IDE, Solidworks

**Hardware:** Arduino, ESP32, DIY

**Miscellaneous:** IOT, Soldering, Video Editing, Picture Editing, 3D Modelling

**Soft Skills:** Tutoring, Teamwork, Problem-solving, Creativity, Logical Thinking, Technical support

## Projects

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**Smart Bin** | *Arduino*

July 2022

- Prototype bin to sort rubbish thrown in between paper and plastic
- Proximity sensing to open the bin when a person approaches it to prevent physical contact with the bin

**Kollector** | *Arduino*

March 2024

- A remote-controlled rover designed to move on water to collect floating waste and debris

**U-Vest** | *Arduino, ESP32*

April 2025

- A vest with sensors to aid the visually impaired to perceive their environment
- Proximity sensing to inform the user how close he/she is to an obstacle
- Object detection and Audio functions to identify obstacles and inform the user

## Experience

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**Robotics Club** | *President*

2020–2021

Mfantshipim High School club centred around Robotics and Computing topics

**Aaenics UMaT** | *Tutor*

2023

To guide students to acquire robotics and computing-related skills while learning new skills in the field

**Aaenics UMaT** | *IOT Head*

2024

To guide students to acquire robotics and computing-related skills while learning new skills in the field

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**Ghana Grid Company Limited | Intern**

2024

To assist the engineering department staff with their daily activities such as designing constructing and maintaining of power transmission infrastructures.

**Education****University of Mines and Technology**

2022 - 2025

Bachelor of Science in Electrical and Electronics Engineering

**Relevant Coursework**

**Courses:** Introduction to C++ Programming, Object-Oriented Programming with C++, Introduction to Python Programming, AI and Machine Learning, Applied Electricity, Basic Electronics, Linear Algebra, Calculus, Differential Equations, Math Analysis, Matlab and Simulink, Labview, Linear Electronics, Digital Electronics, Electro-Magnetic Field Theory, Circuit Theory, Technical Report Writing