**NAME: ONGOR KENNEDY OUMA**

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I am a motivated and diligent electrical engineering student with a passion for innovation. Seeking a challenging position that allows me to apply my technical skills and contribute to the development of cutting-edge technologies and to meet my country’s SDGs.

**EDUCATION**

* BSc. Electrical and electronics engineering, Kenyatta university (2021 to date)
* Secondary, St. Peters Rambula Secondary School (2017-2020)
* Primary, Ugunja Township Academy (2007-2016)

**KEY PROJECTS**

**SMART BIN PROJECT:**

I collaborated with a team of 2 engineers to develop an innovative smart bin system aimed at optimizing waste management. Responsibilities included designing the circuitry, programming the microcontroller, and implementing sensor integration. Successfully delivered a functional prototype that demonstrated an improved efficiency in waste collection and disposal. Through this I gained technical expertise in circuit design, microcontroller programming and sensor integration while also developing crucial project management and problem-solving skills. The experience showcased my innovative thinking and ability to collaborate effectively within a team

**AUTONOMOUS ROBOTIC CAR;**

I also collaborated with a team of ardent and ambitious engineers to develop a functional autonomous robotic car. I implemented my knowledge of Arduino programming, systems control and design thinking to come up with the same. Responsibilities included assembly of parts, programming the Arduino microcontroller and doing a series of multiple tests on the road to ensure proper and efficient working of the car.

**EXPERIENCE:**

* Mentorship Program Participant, 8th July 2023;

Engaged in a mentorship program as a mentor where I successfully mentored the young students of Kenyatta University Primary school in matters electrical engineering and embedded systems gaining insights and improving my technical and communications skills.

* Internal attachment, Kenyatta University, (May-July 2023);

Successfully completed my first attachment that formed a bridge between the theory learnt in class and the practical. An informative session where I was able to learn and understand the various principles of generators and motors and how to troubleshoot the, whenever there is a glitch, delving into the world of electronics and their circuits I gained skills of their design and also their troubleshooting. To culminate my internal attachment, I was also taken through domestic wiring; how to design a wiring system of a house and implementation of the same.

* K12 Initiative Participant;

I took part in the K12 initiative program as a mentor whereby as members of the IEEE Signal Processing Society toured various parts of the country to mentor the young upcoming generation about STEM and robotics. The schools toured included Mount Kenya Academy, Nyeri, Children in Freedom School, Nakuru and Samburu Girls’ Foundation in Samburu. This improved my communication skills and my knowledge of embedded systems as we came up with simple projects to showcase to the students.

**SKILLS:**

* Excellent communication skills
* Proficient programming skills in C, C++, PYTHON, HTML &CSS
* Circuit design and trouble shooting skills
* Microcontroller programming
* Great problem- solving skills and analytical thinking.

**LANGUAGES:**

* Fluent in English and Swahili.
* Intermediate proficiency in Japanese

**INTERESTS:**

* Coding
* Chess playing
* Football playing