Rehema Amor Kipchumba

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PROFILE

A dedicated third-year Engineering student passionate about leveraging technology for sustainable development. Committed to supporting young people from underserved communities through mentorship and volunteer work. Aspiring to specialize in power systems with a focus on large-scale renewable energy solutions. Highly motivated, eager to learn, and driven to make a lasting impact in the energy sector.

KEY SKILLS

- Microsoft Office proficiency
- Strong Leadership & Motivational Skills
- Excellent Organizational, Analytical, and Administrative Abilities
- Multitasking and Time Management
- Fluent in English and Swahili (spoken and written)
- Proficiency in C++, Java Computer Language and Computer Aided Design softwares.

EDUCATION

Strathmore University, Nairobi Kenya   2022 – Present
BSc. Electrical and Electronics Engineering
SCESA (School of Computing and Engineering Sciences Association) Member
IET (Institution of Engineering and Technology) Member
SESC (Strathmore Environment and Sustainability Club) Member

Vulcan IoT, Nairobi Kenya   May – June 2024
Certificate: IoT - Embedded Systems and Cloud Creation

Amnesty International, Nairobi Kenya   June 2024
Certificate: Energy Transition - Powering Change

VOLUNTEER EXPERIENCE

Young Scientists Kenya, Nairobi, Kenya   2022 – Present
National youth program on STEAM Education and Innovation.
Volunteer and Student Mentor

- Assisted in organizing and managing YSK events to promote STEM education and STEM careers uptake
- Mentored students during outreach programs, guiding them through project development and presentation

Miti Alliance Kenya, Nairobi, Kenya   2022 – Present
Organisation focused on Environmental Education through empowering and equipping the current and next generation of conservationists
Tree Planting Support

- Actively volunteer as part of the team dedicated to environmental conservation efforts across the country. I participate in tree planting initiatives, habitat restoration and community clean up activities to promote a more sustainable environment.

Roho Foundation Kenya, Nairobi, Kenya   2019 – Present

Non-profit organisation that empowers primary school children from less advantaged backgrounds to prepare and transition into and out of highschool.

Finance Manager

- Oversee the foundation's financial accounts, ensuring accurate tracking of all donations and financial transactions, including preparing necessary reports.

INNOVATIVE PROJECTS

- An automated chicken drinker that used basic physics principles to automate the process of giving water to chicken which won awards country-wide.
- A carbon dioxide detector that set off an alarm, if at all the toxic gas was in lethal amounts in the atmosphere.
- Creation of a device that integrates data analysis and IoT to aid farmers make informed decisions concerning their agricultural ventures as well as automating processes such as irrigation depending on the soil moisture content.
- Automated lighting system, controlled by communication modules such as WIFI and/or Bluetooth to turn lights on/off.
- Remote controlled model of a car using IoT sensors to control its movement.

REFEREES

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