



Ronny Kimutai

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● ABOUT ME

Dedicated Electrical Engineering student passionate about innovation and sustainability. Eager to apply my knowledge through impactful projects and gain practical experience. A quick learner with strong problem-solving skills, committed to driving cutting-edge solutions in engineering.

● WORK EXPERIENCE

20 APR 2024 – CURRENT Nairobi, Kenya
POWER TRAIN LEAD STRATHMORE RACING

Powertrain Lead for Strathmore Racing, a Formula Student team. Responsible for designing, optimizing, and integrating the electric powertrain system. Tasks include motor selection, battery pack design, drivetrain analysis etc.

Website <https://www.linkedin.com/company/strathmore-racing/>

20 JUL 2024 – CURRENT Nairobi, Kenya
STUDENT MEMBER IEEE STRATHMORE UNIVERSITY STUDENT BRANCH

7 JAN 2025 – CURRENT Nairobi, Kenya
TREASURER STRATHMORE GERMAN CLUB

I currently serve as the Treasurer for Strathmore German Club.

8 JAN 2024 – 7 JAN 2025 Nairobi, Kenya
COMMUNICATIONS AND SOCIAL MEDIA MANAGER STRATHMORE GERMAN CLUB

Served as the Communications and Social Media Manager for Strathmore German Club.

8 JAN 2024 – 20 MAY 2024 Nairobi, Kenya
E-BIKE SYSTEMS INTERN EBEE AFRICA

- Evaluating and Repairing Battery Management Systems
- Performing Maintenance and troubleshooting of Hub Motors
- Installing GPS and Tracking Systems on E-bikes
- Data Analysis and Visualization

Website <https://ebee.africa/ke/>

OCT 2022 – 10 MAY 2024 Nairobi, Kenya
IOT STUDENT ASSISTANT ILABAFRICA

Setting up and maintaining IoT hardware, sensors, and embedded systems. Assisting with PCB design, prototyping, and testing. Supporting 3D modeling and fabrication of hardware components. Conducting experiments, data collection, and analysis. Ensuring lab organization, equipment calibration, and adherence to safety protocol

FEB 2022 – MAR 2022 Nairobi, Kenya
MARKET RESEARCH TRAINEE STRATHMORE ENERGY RESEARCH CENTRE

Participated in the inaugural Development I-teams Project, a collaboration between Cambridge University and Strathmore University Energy Research Centre. The training focused on market research, emerging technologies, and funding strategies for BlueTap, a UK-based water sanitization startup.

Website <https://www.bluetap.co.uk/post/blue-tap-in-kenya>

● **EDUCATION AND TRAINING**

JUL 2021 – CURRENT Nairobi
BACHELOR OF SCIENCE IN ELECTRICAL AND ELECTRONICS ENGINEERING Strathmore University

Website <https://strathmore.edu/>

JAN 2017 – DEC 2020 Nakuru, Kenya
KENYA CERTIFICATE OF SECONDARY SCHOOL EDUCATION Moi High School Kabarak

Website <https://www.mhskabarak.sc.ke/>

● **LANGUAGE SKILLS**

Mother tongue(s): **KALENJIN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
SWAHILI	C1	C1	C1	C1	C1
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

PCB Design | Embedded Systems | 3D Modelling | Internet of Things | Embedded C | C++ | Market Research | Microsoft Office | Arduino | Raspberry Pi | Communication | Battery Management Systems | GPS Tracking | Design | Data Analysis | Accounting

● **PROJECTS**

DEC 2022 – CURRENT
AI4AFS

Collaborated with fellow researchers at IoT Research Lab-iLabAfrica to Build an IoT and AI system for advisory purposes for Small Scale farmers in Kenya.

Skills: Communication · Global System for Mobile Communications (GSM) · Data Analytics · C++ · Research · Embedded Devices · Printed Circuit Board (PCB) Design

Link https://www.youtube.com/watch?v=73Kuv_lmsuU

JAN 2022 – APR 2023
Smart Water Metering System - Majimeter

Collaborated with fellow researchers at IoT Research Lab-iLabAfrica to Build a Smart water metering device that is transmitting data over NB-IoT.

Skills: EasyEDA · Node-RED · MQTT · Internet of Things (IoT) · Data Visualization · Data Analytics · C++ · Research · 3D Design · Printed Circuit Board (PCB) Design

10 JUL 2024 – CURRENT
Uzima AI

A user-friendly platform that primarily continuously and remotely monitors vital signs, triggers warnings for adverse events and deteriorating conditions, and provides personalized, AI-processed dietary recommendations tailored to the user's health conditions and location for holistic health management.

Skills : IoT & Embedded Systems · Data Visualization · Printed Circuit Board (PCB) Design

Link <https://github.com/Ronny-Kimutai/UzimaAI>

● HONOURS AND AWARDS

AUG 2024

Dean's List Academic Award (2023-2024) – Strathmore University

I was awarded the Dean's List Academic Award for my outstanding performance in the academic year (2023-2024)

Link <https://drive.google.com/file/d/1P9S4XGtjcon3P2D--6HAQdcxPyUvfbQ2/view>

DEC 2023

IEEE Global Conference on Artificial Intelligence and Internet of things 2023 – IEEE

I actively Participated in the 2023 IEEE Global Conference of Artificial intelligence and Internet of things (IEEE GCAIoT 2023) where we presented the paper Enhancing Agricultural Support for Small Scale Farmers in Kenya: An IoT-Based Mini Weather Station as a Machine Learning Data Collector.

Links <https://drive.google.com/file/d/1VA-RNMq-9hW1lyLjeFPvQAChhSIE5LWr/view> | https://www.researchgate.net/publication/377427023_Enhancing_Agricultural_Support_for_Small_Scale_Farmers_in_Kenya_An_IoT-based_Mini_Weather_Station_as_a_Machine_Learning_Data_Collector

FEB 2023

World Engineering Day Hackathon – UNESCO

Participated in the World Engineering Day Hackathon.

Link https://drive.google.com/file/d/1UFTeLDru50VtoNfplCw_VaNpx0FH8KMO/view

AUG 2022

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● HOBBIES AND INTERESTS

Swimming

Watching and Playing Football

Watching Formula 1

Playing Video Games

● VOLUNTEERING

JAN 2023 – MAR 2023 Eldoret, Kenya

Eldoret Hospice

- I actively contributed my time and skills to support the organization. I assisted with various tasks such as community outreach, field visits etc.
- This opportunity strengthened my communication and awareness of community needs skills and am grateful for the opportunity and I was also motivated me to continue making a difference through volunteerism.

● CERTIFICATIONS

Building a Hybrid Architecture with influxDB

InfluxData
Issued Mar 2023

Link https://www.credly.com/badges/5e01b815-e9f4-4409-b698-edcba87f75e0/public_url

Cisco IT Essentials

Cisco
Issued Jan 2022

Link https://www.credly.com/badges/2942913c-223d-464e-9e3a-39e467fd3bfd/public_url

Computation with Python

Assam Don Bosco University, Guwahati
Issued Sep 2021

Link https://drive.google.com/file/d/1uKm2B_zQMtO4aELTl39iQ1bEbo3bBE8t/view

Powering the Drive: Unveiling EV Electronics

Coursera Instructor Network
Issued May 2024
Credential ID GA4YCYGCUWPY

Link <https://www.coursera.org/account/accomplishments/verify/GA4YCYGCUWPY>

● REFERENCES

Mr. Solomon Itotia Kamua

Organization: IoT Research Lab - iLabAfrica
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