

# FRANDEL WANJAWA

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## EDUCATION

**Jomo Kenyatta University of Agriculture and Technology (JKUAT)**, Juja, Kiambu, Kenya

Bachelor of Science in Electronic and Computer Engineering, June 2025.

Second Class Honors (Upper Division).

**Friends School Kamusinga**, Kimilili, Bungoma, Kenya

Kenya Certificate of Secondary Education, 2018.

A-(minus).

**The King David Preparatory-Kolanya**, Kolanya, Teso-North, Busia, Kenya

Kenya Certificate of Primary Education, 2014.

400 marks.

## EXPERIENCE

### **Tethics Electrics Group**

#### **Co-Founder**

**Apr, 2025 - Present**

- Building diverse innovative solutions in the fields of AI, ML, and IoT.
- Sustaining a strong focus on climate action and sustainability.
- Coordinated the design and development of AI-powered embedded systems for environmental monitoring.
- Pioneered the integration of AI and IoT technologies in climate-smart agriculture systems to optimize irrigation, soil monitoring, and crop yield forecasting.

### **Kenya Space Agency**

#### **TT&C Subsystem Lead**

**Jan, 2024 – Mar, 2025**

- Established a suitable implementation framework and work plan for the TT&C subsystem.
- Designed and Implemented a data visualization tool for the satellite data.
- Lead, mentor, and manage a high-performing engineering students' team, fostering a collaborative and results-driven work environment.
- Co-designed and implemented the communication circuitry for a nano satellite and proofed firmware for the communication subsystem.
- Resolved a preexisting backlog in the TT&C subsystem and ended up delivering a working model.

## **Netgenix Tech Icons**

### **CTO**

**Aug, 2023 – July, 2024**

- Developed and implemented a comprehensive technology strategy to drive innovation and growth within the company.
- Laid the foundation for a robust technology infrastructure, ensuring scalability and reliability.
- Led the design and development of cutting-edge software solutions, leveraging emerging technologies to enhance product quality and user experience.

## **EgyPro EA Limited**

### **Engineering Intern**

**Jan, 2023 – May, 2023**

- Achieved real-time mitigation of electrical and mechanical faults in booster stations owned by Safaricom in Kiambu County.
- Ensured seamless transmission of telemetry data to the Egypro command center.
- Determined the most effective solutions to address the needs of various booster sites.

## **Gearbox EA || Fedha Electrics || Untapped Global**

### **Engineering Intern**

**Jan, 2022 – May, 2022**

- Co-developed smart solutions addressing human challenges, including a smart water hub and speed limiter.
- Developed data dashboards for IoT sensors.
- Co-developed firmware for hardware designed by other engineers.

## **Kenya National Bureau of Statistics**

### **Census Enumerator**

**July, 2019 – Aug, 2019**

- Collected and recorded data on the population of Kenya during the 2019 National Population and Housing Census.
- Ensured accuracy and completeness of data collected.
- Provided support to other Census enumerators.

## **PRESENTATIONS**

### **1. TT&C Subsystem best practices:**

Organizer: Women in Engineering - Multimedia University, Kenya.

### **2. TT&C subsystem in and out:**

Organizer: Cubekraft, Kenya.

## **CERTIFICATIONS**

1. **Getting Started with Artificial Intelligence** – IBM
2. **Introduction to Cybersecurity** – Cisco
3. **Robotics Dojo** – JKUAT-JICA

4. **Build your first chatbot** – IBM
5. **Microsoft AI Fluency Course** – Microsoft
6. **Cloud for CTOs** – AWS
7. **Getting Started with DevOps on AWS** – AWS
8. **Project Management Foundations** – LinkedIn Learning
9. **Career Essentials in GitHub Professional Certificate** – GitHub
10. **Cybersecurity Awareness: Ransomware** – LinkedIn Learning
11. **Delivering an Authentic Elevator Pitch** – LinkedIn Learning
12. **Learn Emotional Intelligence: The Key Determiner of Success** – LinkedIn Learning
13. **Learning to be Approachable** – LinkedIn Learning
14. **Unconscious Bias** – LinkedIn Learning
15. **Communicating Values** – LinkedIn Learning
16. **ETL in Python and SQL** – LinkedIn Learning
17. **Holding Yourself Accountable** – LinkedIn Learning
18. **Persuading Others** – LinkedIn Learning
19. **Complex Negotiation Tips** – LinkedIn Learning
20. **Engineering as a Path to Leadership** – Society of Engineering Students
21. **Cubesat Design and Development** – Italian Space Agency
22. **Altium Education PCB Design Course** – Italian Space Agency
23. **Cities and Climate Change** – UNITAR
24. **Introduction to Machine Learning** – Kaggle
25. **Python Coder** – Kaggle
26. **Python (Basic)** – Hackerrank
27. **Climate Adaptation and the Cost of Inaction** – LinkedIn Learning
28. **Climate Justice and Sustainable Business Practices** – LinkedIn Learning
29. **Diversity, Inclusion and Belonging** – LinkedIn Learning
30. **Overcoming Procrastination** – LinkedIn Learning
31. **Problem-Solving Techniques** – LinkedIn Learning
32. **Smart Cities: Solving Urban Challenges Using Technology** – LinkedIn Learning
33. **Navigating Environmental Sustainability: A Guide for Leaders** – LinkedIn Learning

## **SKILLS**

- Printed Circuit Board (PCB) Design
- Purchasing Processes
- Climate Change Adaptation
- Climate Change Mitigation
- Artificial Intelligence (AI)
- Machine Learning
- Natural Language Processing (NLP)
- IBM Watson
- Circuit Design
- Web Development
- Firmware Development
- Project Management

## **REFEREES**

**Name: John Omwamba**

Referee's position: Urban Planning Officer

Email: <mailto:john.omwamba@un.org>

City: Trieste

Country/territory: Italy

Phone number: +254720548208

**Name: Njeru Manegene**

Referee's position: Lecturer ECE JKUAT

Email: <mailto:njeru.manegene@jkuat.ac.ke>

City: Nairobi

Country/territory: Kenya

Phone number: +254722540555

## **PEER MENTOR**

**Name: Ian Toyota**

Mentor's position: Student Harvard University

Email: <mailto:iantoyota@college.harvard.edu>

City: Cambridge, Massachusetts.

Country/territory: United States of America.

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