



# WANJAWA FRANDEL

ENGINEER, PROGRAMMER

## ABOUT

Frandel is a remarkably talented and multifaceted individual with expertise spanning embedded systems, web development, electrical and electronic troubleshooting, project management, agriculture, and engineering. Towering in both stature and skill, I approach every endeavor with a relentless passion for innovation, problem-solving, and excellence. For me, it's never just about completing a task—it's about elevating it to extraordinary heights, adding a signature touch of brilliance to every project. Fueled by an unwavering commitment to mastery, Frandel embodies the art of transforming ideas into groundbreaking realities.

## PROJECTS

- Agri X cubesat
- Tafiti cubesat
- Aviator bot.
- Project humanity.[Data analysis on UN and KNBS data].
- Smart Baby Crib.
- Smart Limiter.

## WORK EXPERIENCE

- **Kenya Space Agency [Tafiti Project]** Jan 2024 - present  
Communication subsystem lead
  - Develop a suitable implementation framework and work plan for the communication subsystem.
  - 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.
- **Egypro EA limited** Jan 2023 - May 2023  
Engineering Intern
  - Realtime mitigation of electrical and mechanical faults in booster stations owned by Safaricom.
  - Preemption of needs of various booster sites.
- **Gearbox EA and Fedha Electrics** Jan 2022 - May 2022  
Engineering Intern
  - Co-developed smart solutions addressing human challenges including smart water hub and smart speed limiter.
  - Co-developed firmware for hardware designed by other engineers.
- **Kenya National Bureau of Statistics** July 2018 - Sept 2018  
Census Enumerator
  - Handled and relayed data from respondents.

## AWARDS AND CERTIFICATION

- Robotics Dojo.(2023)-JKUAT JICA
- Society of Engineering Students design competition.(2022)
- Introduction to Cybersecurity-2024 Cisco
- Cubesat Training- 2024 ASI KSA

## CONTACT

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- 🌐 <https://www.linkedin.com/in/frandel-wanjawa/>

## LANGUAGES

C++  
Python  
Php  
Embedded C  
Javascript  
Pascal  
Java  
Postgresql  
MySQL  
Matlab  
Assembly language

## FRAMEWORKS

Vite  
Django  
GraphQL  
React  
Selenium

## MICROCONTROLLERS

- Arduino boards.
- STM32 boards.
- ESP32 boards.
- 8085 processor.
- Raspberry Pi.



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## TOOLS

Kicad  
EasyEDA  
Github  
Docker  
Vs code  
Proteus  
Pycharm

## SKILLS

- Project Management.
- Teamwork.
- Leadership.
- Efficiency.
- Critical Thinking.
- Design Thinking.
- Problem solving.

## LANGUAGES

- English (Fluent)
- Swahili (Fluent)
- Mandarin(Basic)

## EDUCATION

### JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

2019 - 2025

BSc. ELECTRONIC AND COMPUTER ENGINEERING

- Awaiting graduation

### FRIENDS SCHOOL KAMUSINGA

2015 - 2018

KENYA CERTIFICATE OF SECONDARY EDUCATION

- A-(MINUS)
- Mathematics, English, Kiswahili, Physics, Chemistry, Biology, Geography and Christian Religious Education.

### THE KING DAVID PREPARATORY - KOLANYA

2014

KENYA CERTIFICATE OF PRIMARY EDUCATION

- 400 marks.
- Mathematics, English, Kiswahili, Science, Social Studies and Christian Religious Education.

## REFERENCE

### Omwamba John Kebari

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### David Parapara

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