



# 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.

## CONTACT

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## PROJECTS

- Podcast feed generator
- Agri X cubesat
- Tafiti 3U Nanosatellite
- KuraCount
- Smart Baby Crib
- Payroll Management System
- Health Info management sys
- Project humanity
- Aviator Bot
- AB Data

## FRAMEWORKS

- Vite
- Django
- Selenium
- RestAPI
- React
- Pandas
- Matplotlib
- Seaborn

## WORK EXPERIENCE

- Tethics Electrics Grp.** Apr 2025 - Present  
CEO and Co-Founder
  - Solving challenges facing humanity using data, artificial intelligence, and its applications.
- Kenya Space Agency [Tafiti Project]** Jan 2024 - Mar 2025  
Communication subsystem lead
  - Develop a suitable implementation framework and work plan for the communication subsystem.
  - Designed and Implemented a data visualisation 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.
- Egypro EA limited** Jan 2023 - May 2023  
Engineering Intern
  - Realtime mitigation of electrical and mechanical faults in booster stations owned by Safaricom.
  - Ensured seamless transmission of telemetry data to the Egypro command center
  - 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 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** July 2018 - Sept 2018  
Census Enumerator
  - Handled and relayed data from respondents.

## LANGUAGES

- Python
- Javascript
- C++
- Embedded C
- Assembly Language
- SQL
- php
- Matlab
- TypeScript

## TOOLS

- Kicad
- EasyEDA
- GitHub
- Docker
- VS code
- Proteus
- Pycharm
- R studio
- IntelliJ IDEA

## MICROCONTROLLERS

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

## SKILLS

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

## LANGUAGES

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

## EDUCATION

<div>JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY</div> <div>BSc. ELECTRONIC AND COMPUTER ENGINEERING</div> <div><ul style="list-style-type: none"><li>• Second class Honors (Upper)</li></ul></div>	2019 - 2025
<div>FRIENDS SCHOOL KAMUSINGA</div> <div>KENYA CERTIFICATE OF SECONDARY EDUCATION</div> <div><ul style="list-style-type: none"><li>• A-(MINUS)</li><li>• Mathematics, English, Kiswahili, Physics, Chemistry, Biology, Geography and Christian Religious Education.</li></ul></div>	2015 - 2018
<div>THE KING DAVID PREPARATORY - KOLANYA</div> <div>KENYA CERTIFICATE OF PRIMARY EDUCATION</div> <div><ul style="list-style-type: none"><li>• 400 marks.</li><li>• Mathematics, English, Kiswahili, Science, Social Studies and Christian Religious Education.</li></ul></div>	2014

## 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
- Getting Started with AI- 2025 IBM
- Building your first chatbot- 2025 IBM
- Fing IT professional- 2024 Fing
- Microsoft AI fluency Course 2025 Microsoft
- Complex Negotiations 2025 LinkedIn Learning
- Project Management Foundations 2025 LinkedIn Learning
- Career Essentials in GitHub Professional Certificate 2025 GitHub
- Practical GitHub actions 2025 LinkedIn Learning
- Practical GitHub code search 2025 LinkedIn Learning
- Practical GitHub Project mgmt & collaboration 2025 LinkedIn Learning
- Practical GitHub Copilot 2025 LinkedIn Learning
- Climate Justice and Sustainable Business Practices 2025 LinkedIn
- Navigating Environmental Sustainability 2025 LinkedIn
- Problem-Solving Techniques 2025 LinkedIn
- Diversity, Inclusion, and Belonging 2025 LinkedIn
- Climate Adaptation and the Cost of Inaction 2025 LinkedIn
- Smart Cities Solving Urban Problems Using Technology 2025 LinkedIn
- Cities and Climate Change 2025 UNITAR

## REFERENCE

<div>Omwamba John Kebari</div> <div>Urban Planning Officer, UN Habitat</div> <div>Phone: +254-720-548208</div> <div>Email: john.omwamba@un.org</div>	<div>Njeru Manegene</div> <div>Lecturer ECE JKUAT</div> <div>Phone: +254-722-540555</div> <div>Email: njeru.manegene@jkuat.ac.ke</div>
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