

# ONG'ONGE JIM JERRY

## B.Tech Electrical & Electronics Engineering

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Nairobi, Kenya

English, Kiswahili, Dholuo, French

## PROFESSIONAL PROFILE

Motivated Electrical and Electronics Engineering student with hands-on experience in IoT systems, renewable energy, and programming. Demonstrated ability to design practical solutions like automated tracking systems and fluid monitoring devices. Strong academic background with leadership experience as peer mentor and student leader.

## EDUCATION

### Bachelor of Technology in Electrical & Electronics Engineering

Technical University of Kenya

2023–Present

- Key Courses: Circuit Theory, Electronics, Digital Systems, Control Systems
- Special interest in Renewable Energy Systems and IoT Applications

### Kenya Certificate of Secondary Education (KCSE)

St. Augustine's Mirogi Boys High School

2019–2022 | Mean Grade: B

## PROJECTS

### IoT-Based Fluid Level Monitoring System

Technical University Project | 2023

- Designed and implemented low-cost monitoring solution using C++ programming
- Integrated pump control functionality with level sensing
- Gained practical experience in soldering and component placement

### Automated Contribution Tracking System

Independent Project | 2023

# TECHNICAL EXPERTISE

## Programming & Tools

Python    C++    MySQL  
AutoCAD    Excel

## Engineering Skills

Circuit Design    PCB Work  
Renewable Energy    IoT Systems

## Laboratory Equipment

Oscilloscopes    Multimeters  
Signal Generators

- Developed financial tracking system using Python, MySQL, and Excel
- Implemented automated reporting features reducing manual work by 60%
- Created data validation rules to ensure accuracy

## Biomass Energy Research

*Lean Energy Competition | 2022*

- Researched sustainable biomass applications for Kenyan industries
- Analyzed energy security implications of biomass adoption
- Presented findings to panel of energy experts

# LEADERSHIP & ACTIVITIES

- **Peer Mentor** at LVCT Health HomaBay & AYARHEP - Guided 15+ students in academic and career development
- **Treasurer** of Pacesetters Group - Managed group finances and implemented transparent reporting system
- **Member** of Association of Engineering Students - Participated in technical workshops and seminars
- **Student Leader** in High School - Organized academic support programs for junior students

# INTERESTS

Renewable Energy    Embedded Systems    IoT Development    Piano    Technical Writing

# REFERENCES

Available upon request