

# OWUO JOHN

Control Systems Engineer and Project Manager

A vibrant job-seeker willing to excel in a working environment that offers challenges, calls for innovation, and offers career advancement. Ready to assist the team in achieving company goals, have excellent time management, and maintain a full-time position that offers professional challenges utilizing interpersonal skills and problem-solving skills. Detailed team player with the ability to handle multiple projects simultaneously with a high degree of accuracy.

## JOB EXPERIENCE

**2023-09-  
Current**      **Control Engineer**  
*Fireside Group, Nairobi*

### Control Systems Design & Implementation

- Designed, programmed, and deployed PLC-based automation systems for industrial applications, improving operational efficiency.
- Developed SCADA/HMI interfaces for real-time monitoring and control of manufacturing processes.
- Configured and optimized industrial communication networks (MODBUS, Profibus, Ethernet/IP) for seamless integration between automation systems.
- Created and maintained electrical schematics using AutoCAD Electrical for control panel design and wiring diagrams

### Power Distribution & Switchgear Systems

- Integrated protective relays and circuit breakers for

## Contacts

### Address

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### Phone

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### Email

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## Skills

Distributed Control Systems(DCS)



Excellent

PLCs and SCADA systems



Excellent

Calibration and Configuration



Excellent

Troubleshooting



Excellent

Circuit Design



Excellent

Sensors and Actuators



Excellent

Schematic Diagrams



Excellent

switchgear operations and fault protection.

- Performed power system analysis and load calculations to optimize generator and switchgear performance.

## Generator Control & Paralleling Systems

- Developed control strategies for multiple generators, ensuring load-sharing and synchronization with utility grids.
- Programmed and troubleshoot generator controllers to maintain stable power distribution and redundancy.

## Automation & Industrial Process Optimization

- Led PLC upgrade and automation projects, reducing downtime and enhancing system reliability.
- Conducted root cause analysis and implemented corrective actions for recurring automation and electrical failures.
- Worked closely with vendors, consultants, and cross-functional teams to integrate automation solutions into existing infrastructure.

## System Testing, Support & Documentation

- Provided technical support and troubleshooting for PLC, SCADA, and switchgear-related issues.
- Developed and executed test plans for new control systems, ensuring functionality before deployment.
- Created detailed technical documentation, including control narratives, functional design specifications, and testing procedures.

## Compliance & Safety Standards

- Ensured all automation systems met safety, compliance, and

Modbus

● ● ● ● ●  
Excellent

Profibus

● ● ● ● ●  
Excellent

Critical Thinking

● ● ● ● ●  
Excellent

Communication

● ● ● ● ●  
Excellent

Active Listening

● ● ● ● ●  
Excellent

Problem-Solving

● ● ● ● ●  
Excellent

Decision Making

● ● ● ● ●  
Excellent

Leadership and Management

● ● ● ● ●  
Excellent

Risk Assessment

● ● ● ● ●  
Excellent

Planning and Budgeting

● ● ● ● ●  
Excellent

## Software

Ladder Logic

● ● ● ● ●  
Excellent

- 2022-05-2023-08
- regulatory standards.

  - Conducted training sessions for maintenance and operations teams on PLC troubleshooting and system diagnostics.

Control Systems Engineer

Bidco Africa, Thika

Control Systems Engineering & PLC Programming

- Designed, programmed, and maintained PLC-based automation systems for manufacturing processes to optimize efficiency and reduce downtime.
- Developed and troubleshot SCADA/HMI interfaces for real-time monitoring and control of production systems.
- Configured and implemented industrial communication protocols (MODBUS, Profibus, Ethernet/IP) to ensure seamless integration between automation systems.
- Developed and maintained electrical schematics using AutoCAD Electrical for control panel design and system wiring.

Power & Electrical Systems

- Designed and implemented low and medium voltage switchgear systems.
- Integrated protective relays and circuit breakers for switchgear control and fault protection.
- Performed power system analysis and load calculations to optimize generator and switchgear performance.

Generator Control & Parallel Operations

- Programmed and configured generator control systems, ensuring synchronization and load-sharing between multiple generators and utility grids.
- Troubleshoot and optimized generator paralleling systems

MATLAB

●●●●●  
Excellent

Python

●●●●●  
Excellent

AutoCAD

●●●●●  
Excellent

Microsoft Office

●●●●●  
Excellent

Spreadsheet

●●●●●  
Excellent

Languages

English

●●●●●  
Excellent

Swahili

●●●●●  
Excellent

for improved power distribution and energy efficiency.

#### **Project & System Support**

- Led PLC upgrades and automation projects, improving production reliability and reducing manual intervention.
- Provided technical support and training to maintenance teams on PLC troubleshooting, SCADA operations, and control system diagnostics.
- Conducted root cause analysis and implemented corrective actions for recurring automation and electrical failures.
- Worked closely with consultants, vendors, and cross-functional teams to implement new automation solutions.

#### **Compliance & Documentation**

- Ensured all automation systems met industry safety and regulatory standards.
- Developed detailed documentation, including control narratives, functional design specifications, and testing procedures.

2021-11-  
2022-04

#### **Energy Control and Instrumentation Engineer Intern**

*KenGen, Naivasha (Olkaria)*

- Maintained and optimized control systems specific to geothermal power plants.
- Handled installation and calibration of instrumentation and control systems in geothermal facilities.
- Automated geothermal energy production processes using advanced control systems.
- Integrated energy systems with control and instrumentation technologies.
- Ensured that all energy systems comply with safety and environmental regulations.

- Used data from instruments to analyze system performance and improve energy output.

2019-05-  
2019-08

### **Industrial Control and Instrumentation Attache**

*KENYA AIRPORTS AUTHORITY, Nairobi*

- Performed system diagnostics and provided technical support in a highly demanding environment.
- Maintained electrical facilities, PABX systems, crash alarms, proximity sensors, and enhanced functionality in high-traffic areas.
- Integrate PLC systems with other control and monitoring systems, including SCADA, to enhance operational efficiency.
- Implement communication protocols (e.g., Modbus, Ethernet) for seamless data exchange between devices.
- Monitor PLC-controlled systems such as baggage handling, lighting, HVAC, and security systems to identify issues and ensure uninterrupted operations.
- Diagnose faults in Siemens and Schneider PLCs using diagnostic tools like TIA Portal, EcoStruxure, or Unity Pro.

## **EDUCATION**

2024-04-  
current

### **Project Management**

*CRM.ORG*

2016-09-  
2021-04

### **Bachelor of Science in Control and Instrumentation**

*Jkuat - Kiambu, Kenya*

2016-01-  
2016-09

### **Certificate in Computer (ICDL Profile Certificate)**

*KCA University - Nairobi, Kenya*

2012-01-2015-11 **Kenya Certificate of Secondary Education**  
*Mbita High School - Homa Bay, Kenya*

2003-01-2011-11 **Kenya Certificate of Primary Education**  
*St. Peters Cape View - Homa Bay, Kenya*

#### Achievements & Awards

- National Level Science and Engineering Fair
- National Level Kenya Drama and Music Festival
- County Level Scouts Inter Patrol Camping Competition

#### Volunteering

- A volunteer member of the Green Belt Movement | since 2021
- A member of the Friends of Karura Forest | since 2022

#### Leadership Role

- **Programme Manager** | Giving back to the Community through Invicta Child Foundation | Current

#### Interests

- Research
- Mentoring
- Art
- Strategic Gaming
- Tech-savvy

#### Referee

**Dr. Maurice Odhiambo**  
UON – Lecturer

0724468162

**Dr. Calvin Ominde**

JKUAT - Lecturer

(067) 52181-4/52711

**Lilian Omach**

ISUZU - Accountant

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