

TONY OCHIENG' OUMA

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INSTRUMENTATION & CONTROL ENGINEER (Graduate / Junior Level)

PROFESSIONAL SUMMARY

Instrumentation and Control Engineering graduate with practical exposure to industrial automation, process instrumentation, and embedded control systems. Hands-on experience in sensor calibration, control panel maintenance, microcontroller-based system design, and troubleshooting in live industrial environments. Strong foundation in control principles, instrumentation, and electrical systems, with a proven ability to translate theory into working prototypes and field-ready solutions.

CORE TECHNICAL STRENGTHS

Instrumentation & Control: Sensor calibration, transmitters, signal conditioning, industrial wiring, control panels, field instrumentation

Automation & Control Systems: Basic PID control, feedback and open-loop systems, process automation fundamentals

Embedded & Digital Systems: Arduino, RFID, IR sensors, microcontrollers, hardware interfacing

Electrical & Industrial Systems: Electrical troubleshooting, panel layouts, maintenance support

Programming & Tools: C, C++, Proteus, LabVIEW (academic–applied), basic PLC exposure

ENGINEERING EXPERIENCE

Industrial Trainee – Instrumentation & Electrical

Suman Shakti (EPZ) Limited | June 2024 – September 2024

- Performed electrical and instrumentation troubleshooting on production equipment under supervision in a live manufacturing environment.
- Assisted in calibration, testing, and verification of process instruments to ensure measurement accuracy and system reliability.
- Supported maintenance and inspection of industrial control panels, wiring systems, and field devices.
- Participated in automation system checks and routine maintenance activities, gaining exposure to real-world process control operations.
- Worked within industrial safety standards and documentation procedures in an EPZ-regulated facility.

ENGINEERING PROJECTS

Intelligent Traffic Monitoring and Control System with Emergency Vehicle Detection

Final Year Engineering Project

- Designed and implemented a microcontroller-based traffic control prototype integrating RFID and IR sensors for emergency vehicle prioritization.
- Developed control logic to manage multi-directional traffic flow and dynamically override signals for emergency response scenarios.
- Integrated multiple sensors and actuators to achieve synchronized operation across simulated intersections.
- Tested and validated system behavior under different traffic conditions to demonstrate improved response time and flow control.
- Project bridged embedded systems, control logic, and real-world problem-solving in intelligent transportation systems.

ADDITIONAL WORK EXPERIENCE

Jack Hammer Operator – Industrial Site Operations | May 2023 – September 2023

- Operated mechanical equipment in active construction environments while adhering to safety and site procedures.
- Gained practical exposure to industrial work conditions, safety discipline, and coordination with technical teams.

Polling Clerk – Independent Electoral and Boundaries Commission (IEBC) | August 2022

- Managed voter verification, data recording, and logistical support during national elections.
- Maintained accuracy, confidentiality, and procedural compliance in a high-responsibility environment.

EDUCATION

Bachelor of Technology in Instrumentation and Control Engineering

Kirinyaga University | Graduated October 2025

Second Class Upper Division

Kenya Certificate of Secondary Education (KCSE)

Barding Boys High School | Grade B+ (2019)

SOFT SKILLS

Analytical problem-solving | Technical communication | Team collaboration | Adaptability | Attention to detail | Continuous learning mindset

CERTIFICATIONS & LICENSES

Class B Driving License

REFEREES

Available upon request

