

# Peter Kibagendi

## Industrial Energy Engineer

📍 Nairobi, Kenya

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in /peterkibagendi/

### 🎓 EDUCATION

**MSc Industrial Engineering and Management,**  
*Dedan Kimathi University of Technology*

**Thesis:** Energy Efficiency Optimization of Fruit Cold Storages

2021 – Present

**BSc Mechatronic Engineering,** *Jomo Kenyatta University of Agriculture and Technology*

**Project:** Design and Fabrication of an Automated Variable Shape Handling Overhead Crane Model

2013 – 2018

### 💼 PROFESSIONAL EXPERIENCE

**Energy Engineer,** Energy Intelligence Africa Ltd

11/2021 – To Date | Nairobi

Energy Engineer with a selected focus on Energy & Water Management.

- Carried out investment and general-grade energy audits for commercial and industrial facilities.
- Design, installation, and commissioning of Solar PV systems for C&I plants.
- Project management for energy and water efficiency, and renewable energy projects.
- Participated in energy efficiency studies nationally and regionally.
- Preparation of Bill of Quantities, project bid documents, and tender analysis.

**Skills:** Energy Efficiency | Water Efficiency | Renewable Energy | Project Management

**Automation Engineer,** Savannah Cement Ltd

01/2021 – 10/2021 | Athi River

O&M Engineer responsible for Performance Optimization of industrial machinery and equipment including control and instrumentation, electrical motors and drives, water and pumping systems, and compressed air systems toward reducing performance inefficiencies and reducing associated utility costs. Additional exposure to industrial energy support tools.

**Skills:** Instrumentation | Plant Maintenance | Process Optimization | Process Automation

**Engineering Plant Trainee,** Sasini Plc

01/2019 – 12/2020 | Nyamira

Practical engineering training. Worked with a program, rotating through various sections. Learnt to work with practical machines and their controls within a production setup. Honed leadership and supervision skills.

**Skills:** Plant Maintenance | Instrumentation | Process Optimization |

**Plant Maintenance Intern,** Sasini PLC

08/2018 – 12/2018 | Nyamira

Hands-on experience with tea production machinery.

**Skills:** Plant Maintenance | Instrumentation

### 🧠 SKILLS

**Data Enthusiast:** Power Bi, Tableau & Minitab, MS Excel

**Quality Management:** Waste Reduction, Variability Reduction, & Continuous Improvement

**Project management skills:** Risk, Time, Cost and Project Quality Management, Scheduling, Resource Planning, & Project Supervision.

Working knowledge of **Lean Six Sigma, Kaizen Principles, 5Cs, & 5S.**

**Reliability Improvement Techniques:** RCA, MTBF, MTTF, CAPA, FTA, FMEA & Predictive Modeling.

**Routine and Preventive Plant Maintenance:** Boilers & Steam Systems, ETP, Pumps, HVAC systems, Generators, Motors & Solar PV Systems

**CAD, CAE & CFD Proficiency:** AutoCAD, Autodesk Fusion 360, SolidWorks & AutoCFD

**Industrial Automation:** Control Systems Design, SCADA, PLC, VFD, DCS, HMI, Industrial Networks, & System Integration.

**Energy Auditing:** Measurements and data collection, engineering analysis, environmental and economic analysis, report writing

**Solar PV Systems Design:** PV Syst, Helioscope, and Homer, Calculations, Components selection, installation & Commissioning.

**Research:** Energy Efficiency and Water Efficiency studies, Feasibility studies & Policy drafting

### 💖 MEMBERSHIP BODIES

04/2022	Association of Energy Engineers Eastern Africa	<b>A273</b>
02/2022	The Institution of Engineers of Kenya	<b>G10862</b>
03/2019	Engineers Board of Kenya	<b>B16654</b>

## **TRAININGS & CERTIFICATIONS**

**Sep-Oct 2022, Launch Hub Africa**

*Project Management Professional Training*

**Aug-Dec 2021, Technocrat Automation**

*Industrial Automation*

**July-Oct 2021, Lean Africa Consultants**

*The Africa Project Finance Program*

**June-Sept 2021, Kenya Institute of Management**

*Quality Management*

**April-June 2021, Engineering Institute of Technology**

*Project Management for Engineers and Technicians*

**May 2021, Strathmore Business School**

*Business Intelligence and Data Analytics*

**Jan-March 2021, Kenya Institute of Management**

*Monitoring and Evaluation*

**Aug-Oct 2020, Savvy Fellowship**

*Savvy Fellow*

**Jan-March 2020, Luxury Academy**

*Leadership and Management*

**Jan 2019, Centurion Systems**

*Variable Frequency Drives Training*

## **PROJECTS**

**Consultancy for 4MW Grid Tied Solar PV system| Ruiru**

*July 2022-To Date*

**Water Stewardship Consultancy for Kenya**

**Flower Council| KE**

*Jan 2022-To Date*

**Drafting of Energy Efficiency Policy for**

**EACREEE| NBO**

*Nov 2021-To Date*

**Investment Grade Energy Audit for VegPro**

**Group (JKIA, Freight Wings & Juja) | NBO**

*June 2022*

**General Grade Energy Audit for Kenya Seed**

**Co. Ltd| Nakuru**

*July 2022*

**Energy and Water Scoping Audits & Waste**

**Management Assessment MESPT 15 Facilities|**

**KE**

*Dec 2021-July 2022*

**Maintenance of Solar PV Systems for REREC|**

**Kitui County**

*Feb 2022-Aug 2022*

**Investment Grade Energy Audit for Weetabix**

**EA Ltd| NBO**

*June 2022*

**Installation, Testing, and Commissioning of**

**Cement Packing Line | Athi River**

*Aug 2021-Oct 2021*

**Installation, Testing, and Commissioning of Tea**

**Packer| Nyamira**

*Oct 2020-Dec 2020*

## **REFEREES**

Jones Musango

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