Peter Kibagendi

*Industrial Energy Engineer*

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| **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.   1. Carried out investment and general-grade energy audits for commercial and industrial facilities. 2. Design, installation, and commissioning of Solar PV systems for C&I plants. 3. Project management for energy and water efficiency, and renewable energy projects. 4. Participated in energy efficiency studies nationally and regionally. 5. 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,**](https://www.sagemcom.com/fr) *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 | **A273** | | 02/2022 | The Institution of Engineers of Kenya | **G10862** | | 03/2019 | Engineers Board of Kenya | **B16654** | |

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| * **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](https://s3-us-west-2.amazonaws.com/udacity-printer/production/certificates/b7dae242-8e91-47c4-9eef-a8a8e475c784.pdf) 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  Engineering Manager  Energy Intelligence Africa Ltd  +254 725 940 990  [*jones.musango@energyintelligenceafrica.com*](mailto:jones.musango@energyintelligenceafrica.com)  Japheth Mageto  Engineering Supervisor  Sasini Ltd  +254 726 799 978  [*japhetmageto@gmail.com*](mailto:japhetmageto@gmail.com)  Dr. James Wakiru  Senior Lecturer  Dedan Kimathi University of Technology  +254 722 803 504  [*james.wakiru@dekut.ac.ke*](mailto:james.wakiru@dekut.ac.ke) |