

ELIJAH GITIMU NJAU
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PROFILE SUMMARY

A hands on, innovative Mechanical Engineer keen on discovering new technologies as I make adjustments to the already existing ones as I contribute to making work easier in the building services sector. My work experience has enabled me acquire skills in; project management, design of energy efficient systems, maintenance and repair, supervision and analytical skills. Some of the roles I have handled in the course of my work experience include; project management, designing of energy efficient systems, translating designs into drawings, preparing technical documentation like manuals, operating procedures and project proposals and supervising installation of HVAC & R systems in data centers, offices, hotels, warehouses and banks.

PERSONAL DETAILS

Year of birth: 1988

EDUCATION

- **Masters of Science in Energy Management** – University of Nairobi; 2016 to date
- **Bachelor of Technology in Production Engineering** – Masinde Muliro University of Science and Technology; 2008 to 2013
- **Kenya Certificate in Secondary Education**- St Augustine Sirma Secondary School; 2003 to 2006

PROFESSIONAL AFFILIATIONS

- Registered Graduate Engineer. (GE) EBK.
- Professional Engineering Technologist in Mechanical Engineering. (P. Eng. Tech). KETR.B.
- Full Member-IET. (MIET)
- Accredited Mechanical Engineering Works Supervisor-NCA.
- Member 171842 (IAENG) - International Association of Engineers.
- Energy Management.

KEY SKILLS AND COMPETENCIES

- **Project Management:** Experienced in project planning from proposal, implementation, commissioning and system maintenance. Highly competent working as the technical lead and project lead whereby I ensure team members are kept abreast with developments in program changes and progress in order to advise and recommend tools and strategies to increase program performances and results.
- **Mechanical Engineering Skills:** Solid command of technologies, tools and best practices in designing energy efficient systems and power generation from renewable energy sources.
- **Assembling skills:** Wide knowledge in assembly line, continuous improvement and assembly line pacing and optimization. Also able to install plant machinery and ensure they work appropriately.
- **Safety and Health Management:** Managed to maintain safe and clean work environment by educating and directing personnel on the use of all control points, equipment and resources and ensuring that they comply with Health and Safety rules and procedures as laid down by the company.
- **Software and Programming skills:** Proficiency in use of software such as AutoCAD, ArchiCAD, SAP, SMMS Toshiba, LG and Trane Software.
- **Team Player:** Ability to work in a team by offering my expertise when called upon and can also work with team members ensuring that all duties are completed in time.
- **Flexibility:** Ability to work in fast paced environments by maintaining calm under pressure and executing my roles effectively.
- **ICT Competence:** Proficient in use of MS software such as Microsoft Word, Project, Excel and PowerPoint.

WORK HISTORY

Project Manager

Gilfilian Air Conditioning Limited; Feb-2019 to date

Duties and responsibilities

- Business development, project management & value engineering.
- Technical lead for site visits, design, installation and maintenance teams.
- Preparing technical specifications, schedules and technical reports.
- Costing for new projects and evaluation of the material quality & standards.
- Ensuring procurement of project equipments and accessories are done to specifications and timely.
- Reviewing tenders and bill of quantities.
- Technical Committee Member at KEBS.

Project Engineer

Snowpeak Refrigeration and General Contractors Limited; 2013 to Jan-2019

Duties and responsibilities

- Project management.
- Translating designs into drawings using AutoCAD and ArchiCAD.
- Reviewing technical drawings and specifications.
- Preparing technical documentation like manuals, operating procedures and project proposals.
- Supervising installation of HVAC systems, refrigeration systems and laboratory equipments.
- Commissioning and support technical operations of HVAC equipments and Refrigeration systems as well as laboratory equipments.
- Reviewing tenders and bill of quantities for mechanical services.
- Preparing mechanical working and as built drawings in conjunction with the architectural, structural and mechanical design team.
- Preparing quotations in line with the customer specifications and proposing energy efficient equipments.
- Attending site and inspection meetings.

Mechanical Engineer

Specialised Water Systems; June to August 2013

Duties and responsibilities:

- Prepared tender documents; Bills of Quantities and attending pre-tender and tender opening meetings.
- Translated designs into drawings.
- Designed plumbing and drainage systems.
- Prepared plumbing and drainage shop drawings.
- Supervised installation of internal plumbing and drainage systems, sanitary fittings, fire extinguisher equipments, water tanks and compressed air systems.
- Attended site and inspection meetings.
- Interpreted design drawings in the field.

Intern

Kengen, Olkaria Geothermal Power Project; May to July 2012

Duties and Responsibilities

- Assisted in generation of electricity from geothermal energy.
- Corrective maintenance of condensers.
- Assisted in maintenance of heat exchangers, oil coolers and purifiers.
- Assisted in maintenance and inspection of turbine-generator and auxiliaries.
- Assisted in inspection and maintenance of air compressors.
- Dismantled, inspected and assembled the turbine during the overhaul of the turbine as well as replacement of worn out parts.

OTHER PAST EXPERIENCES

- **Industrial Attachment – Tata Chemicals, Magadi Limited; May to July 2011;**
Some of the duties handled include; maintenance planning and scheduling, maintenance of calciners, shaft coupling i.e. Motor-Pump coupling and alignment, dredging, use of SAP PM Module, total productive maintenance of the plant, drawing and interpretation of drawings in AutoCAD, maintenance of particle sizers, material conveying equipments and material separation equipments and measurement and recording of motor-pump coupling speed, vibrations and temperatures.
- **Workshop Practice – MMUST Mechanical Engineering Workshop; May to July 2010;**
Some of the skills gained include; workshop safety regulations, machining and milling, design and fabrication, part assembly and drawing and interpretation of drawings in Solid Works and AutoCAD softwares.
- **Packaging Assistant – Cadbury Kenya Limited; 2007 to 2008**
- **Undergraduate Project Achievements:**
Design of an air cooling system using turbine geothermal exhaust steam {Vapour Absorption Technology} for Olkaria II offices and plant.
Design, fabrication and testing of the MMUST robot that was presented during the National Robotics contest at K.I.C.C –Nairobi.

PROJECTS HANDLED

HVAC & R System Design, Supply, Installation, Testing and Commissioning.

- Icolo Data Centres – Nairobi & Mombasa.
- Raxio Data Centre – Uganda.
- Embassy Building – Nairobi.
- HVAC Works-RSC Africa
- HVAC & R Works at KSMS, Central Bank of Kenya.
- Construction of Pharmacy Production Unit at Agakhan University Hospital.
- Chiller & AHU installation for HDU at Agakhan University Hospital
- Construction of Studio for Standard Group PLC.
- Builders Warehouse at The Waterfront Karen.
- Precision Cooling System for Data Centres in the United Nations Headquarter, Gigiri, Nairobi.
- Kenya Commercial Bank-Next Gen Mall and Two Rivers Mall.
- Development of National Intelligence Academy.
- Development of Research Technology and Innovation Laboratories and Related Infrastructure.
- Construction of a New Modern Dining Hall, Kitchen and Stores for Kenya High School.
- ABSA Bank Kenya at Garden City Mall and Thika Road Mall.
- Convent International Guest House.
- HVAC Works at BAT Kenya.
- HVAC & R systems Maintenance planning for Airtel, Africa Data Centre, BAT Kenya, KCB Bank, Barclays Bank, Equity Bank, Sankara Hotel, and Central Bank of Kenya.

REFEREES

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Engineering Professor, Moi University.

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