

ELIJAH GITIMU NJAU

P.O BOX 32257-00600, Nairobi

Tel: +254 723 087 121

Email: pednjau3@gmail.com

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 energy 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

- Professional Engineering Technologist in Mechanical Engineering. (P.Eng Tech).
- 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 Software 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, PowerPoint and Publisher.

WORK HISTORY

Project Manager

Gilfilian Air Conditioning Limited; Feb-2019 to date

Duties and responsibilities

- Business development & project management.
- Design, installation, commissioning and maintenance of HVAC & R systems.
- Writing technical specifications, schedules and technical reports.
- Reviewing tenders and bill of quantities for mechanical services.

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 Heat Ventilation and Air Conditioning (HVAC) equipment 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.

Attachee

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.

- Precision Cooling System for Data Centres in the United Nations Headquarter, Gigiri, Nairobi.
- Proposed New Kenya Commercial Bank-Next Gen Mall.
- Proposed New Kenya Commercial Bank-Two Rivers Mall.
- Proposed Development of National Intelligence Academy.
- Proposed Development of Research Technology and Innovation Laboratories and Related Infrastructure.
- Construction of a New Modern Dining Hall, Kitchen and Stores for Kenya High School.
- Proposed Barclays Bank of Kenya Banking Hall at Garden City Mall.
- Proposed One Stop Centre for Investors and Ken invest Offices at UAP Towers Upperhill.
- Proposed New Branch Premises for National Bank of Kenya-Greenspan Mall.
- Proposed Barclays Bank of Kenya-Thika Road Mall.
- Convent International Guest House.
- Clinic Installations at BAT Kenya.
- Proposed Chuka University Science, Research and Technology Park.
- HVAC & R systems Maintenance planning for BAT Kenya, KCB Bank, Barclays Bank, Equity Bank and Central Bank of Kenya.

REFEREES

Eng. Ahmed Muhammed Swaleh

Lecturer

University of Eldoret

Tel: +254 721 868 758

Email: muhammedswaleh@gmail.com

Prof. Zachary Siagi

Engineering Professor

Moi University

Tel: +254 711 213 776

Email: siagizach@gmail.com

Eng. Lawrence Mangerere

Consulting Engineer,

EMS Consultants Limited

Tel: +254 722 817 860

Email: info@emsconsultants.co.ke



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

This is to certify that

~~Njauz Elijah Eritimuz~~

having satisfied the requirements
for the award of the degree of


**BACHELOR OF TECHNOLOGY IN
PRODUCTION ENGINEERING**

Second Class Honours (Upper Division)

was admitted to the degree at a congregation held
at this University

on the Sixth Day of December
in the Year Two Thousand and Thirteen


Vice-Chancellor


Deputy Vice-Chancellor
(Academic Affairs)

CERTIFICATE NO P00261/12-17



Certificate of Membership

This is to certify that

Elijah Gitimu Njau

is registered in the

ENGINEERING TECHNOLOGY PROFESSION

- as -

Professional Engineering Technologist (P.Eng.Tech)

Registered in this day of

15th December, 2017

[Signature]
Registrar

[Signature]
Chairman

