

Career Profile.

Mechanical Engineer with experience working in the engineering and construction industry in the private and public sector:

- Skilled in engineering drawing design, water and drainage systems, environmental assessment and control, project planning and implementation, HVAC, piping design, Fire detection and suppression systems, Steel structural design, test engineering and team supervision.
- Ability to determine the best use of engineering and technical systems to help organizations increase efficiency and quality of all aspects of their operations.

Key Skills.

Project management | Budget and Expenditure Control | Proposal Writing | Quality Assurance and Control | Monitoring and Evaluation | Schedule Variances Detection | Procurement | Blueprint Analysis and Interpretation | Inspection and Review of designs | Strategic Planning | Stakeholder Engagement | Audit Reports | Occupational Health and Safety Management | Risk Assessment | Regulatory Compliance | Preparation and Presentation of Reports

Technical Skill.

AutoCAD | C and C++ | Lumion | Revit | Microsoft Office Suite

Educational Background

Bachelor of Science in Mechanical Engineering, Technical University of Mombasa, August 2014 – November 2019.

Kenya Certificate of Secondary Education (K.C.S.E.), Kipsaos Boys' High School, January 2010 – November 2013.

Professional Experience

Project Engineer, February 2021 – Present.

Kori East Africa Construction Limited, Eldoret.

Reporting to the Managing Director, I review technical specifications and requirements to ensure a thorough and complete understanding of assigned projects and tasks in order to maintain schedule.

- Developing construction project designs and site plans, specifications, cost estimates and environmental impact assessment of the projects.
- Organizing surveying to establish reference points, grades and elevations to guide construction works.
- Writing project proposals for both internal and external prospects where the proposal seeks to fill an organizational need or solve a communal problem.
- Ensuring correct interpretation of Architectural, structural, Mechanical and Electrical design blue prints.
- Supervising execution of general engineering projects comprising of landscaping and construction of dams, drilling of boreholes, installation of elevated storage water tanks and laying water pipelines, drainage systems, structural projects and electromechanical plants.
- Equipment and Machinery selection including construction methodologies based on efficiency, cost implication and energy consumption.
- Ensuring proper installation and maintenance of hoists, site machinery, construction towers and general construction machinery.
- Monitoring job site progress, project schedules and budgets against expenditures to enforce accountability and ensure proper implementation of the approved financial, operation and capital plans.
- Undertaking the installation of conventional and addressable fire detection systems, hose reel and entire fire suppression systems for underground parking lots, boiler rooms and other commercial and industrial buildings.
- Designing and execution of residential, commercial and industrial drainage systems and fresh water supply systems.
- Ensuring adherence to technical construction design and specifications, safety measures on sites and provision of safe working conditions as per the Occupational Safety and Health Act 2007 (OSHA 2007) and other standards.
- Preparing general project reports including site specific reports on every phase of execution and presentation of reports on every site visit.

- Ensuring 100% compliance to tender processing, regulatory legislation and bank policies.
- Implementing audit of safety standards and quality control of supplied and output products in project execution.

Achievement.

- Successfully executed construction of two water reservoir tanks of 2.1million litre capacity, laying of 6.7kms of distribution lines and administration block with in-house laboratory for Ukunda Municipality (Kwale County) under the World Bank-Water and Sanitation Development Project.

Project Engineer, January 2020 – Dec 2020.

Eagle power services Limited, Kisumu.

Reporting to the General Manager, I guided and supported the engineering team in process improvement projects and oversaw the execution of and compliance with construction contracts.

- Understood project specifications and developed time schedules and budgets that meet them.
- Ensured proper installation of lifts, elevators and other motor driven mechanical systems.
- Undertook engineering installation of water supply, drainage systems and firefighting equipment including fire detection systems.
- Constructed the critical path method (CPM) algorithms and identified schedule variances of project status against schedule baseline.
- Ensured adherence to the safety measures on sites and provision of safe working conditions as per the Occupational Safety and Health Act 2007.
- Performed quality control for both supplied materials and the project output products to client's expectation.
- Observed existing processes, analysed staff performance, and addressed deficiencies accordingly.
- Examined commercial sites to determine the feasibility of installing equipment that allows building management systems to reduce electricity consumption during peak demand periods.
- Inspected newly installed energy-efficient equipment to ensure that it was installed properly and was performing according to specifications.
- Evaluated the heating and cooling loads, selected and ensured proper installation of HVAC equipment based on the calculations.
- Checked technical designs and drawings to ensure that they were executed as per all the engineering designs relevant to the project.
- Prepared audit reports containing energy analysis results or recommendations for energy cost savings.
- Ensured project packages meet agreed specifications, budgets and/or timescales.
- Liaised with clients, subcontractors and other professional staff, especially quantity surveyors and the overall project manager.
- Provided technical advice and solved problems on site.
- Preparing site reports and filed in other paperwork.
- Liaised with quantity surveyors on the ordering and the pricing of materials.

Achievement

- Successfully managed execution of more than 10 company's projects for the financial year 2020/2021 including Cancer Centres, Laboratories and Water piping system projects.

Site Engineer Intern, August 2019 – December 2019.

SAKAM Enterprises, Eldoret.

Reporting to the Site Engineer, I provided support in project planning, evaluated all products and processes and ensured standardization of quality assurance measures.

- Planned budget estimates for the office in collaboration and consultation with other staff members.
- Provided the analysis and interpretation of project blueprints created by CAD software on a daily basis.
- Proactively planned and analysed all construction methodologies.
- Ensured adherence to the health and safety measures as outlined in the OSHA 2007.
- Checked the quality of building materials through measuring and sampling.
- Assisted in procurement and stores procedures.

Achievement

- With the County's Engineer acceptance and approval, redesigned a stadium water tank holding structure.

Professional Membership

A graduate member of Engineers Board of Kenya (EBK), membership number B23449.

Referees

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