

Results-focused, entry-level engineering professional with successful internship experience and extensive knowledge of engineering theories, principles, specifications, and standards. Strong 3D skills with the ability to design site layouts from concept through completion. Diverse training on projects with cross-organizational and cross-cultural teams during design, production, and support phases. Proven expertise in serving as an onsite engineer interpreting structural risk and recommending changes to ensure soundness. Skilled in testing structures and foundations in diverse environments. Experienced reviewing tender documents submitted by vendors or subcontractors. Technical proficiency in MS Office (Word, Excel, Power Point, Project), Tedds, Etabs, AutoCAD, Civil 3D, and Arch GIS.

Areas of Expertise include:

- Creating Proposals
- Construction Methods
- Field Surveys
- Structural Design
- Tender documentation
- Structural drafting

Education & Credentials

ME, Civil and Environmental Engineering, University of Maryland, College Park, MD, December 2024 GPA 3.22
BSc., Building & Civil Engineering, Kyambogo University, Kampala, December 2019
National Diploma in Building and Civil Engineering, Uganda Technical College, Mbale, June 2013

Academic Projects

- Assessed challenges and limitations to usage of new national water and sewage corporation sewer in Banda parish, Nakawa division, and Kampala district.
- Took into account earthquake, fires, explosions, storms, flooding, and erosion while designing a multipurpose cultural center for Kyambogo University.

Professional Experience

Meak Construction & Engineering Services • Uganda • June 2021 to September 2022

Site Engineer Assistant

Facilitated construction by assessing for structural integrity and mapping out utility installations. Established reference points, grades, and elevations. Strengthened skills in AutoCAD Civil 3D and HydroCAD to design utilities, construction details, land development, site layout, grading and drainage plans for clients. Managed a team of 10 foremen. Compiled daily and weekly progress reports.

- Cut risk exposure by analyzing survey reports, maps, blue prints, and other topographical and geologic data to effectively plan infrastructure and construction projects.
- Advanced structural safety by evaluating sites to determine soil adequacy for handling loads imposed by building foundation and associated materials.
- Reduced prices and cut down project cost 3% by negotiating contracts with vendors or subcontractors terms of reference on how to execute work effectively on agreed budget and time.
- Slashed payroll/benefits administration costs 30% by negotiating pricing and fees while ensuring project continuation.

Seka Associates Consulting Engineers • Kampala • December 2018 to August 2021

Technical Team Leader

Advanced safety and compliance while approving materials to be used on site by contractor after receiving test results from the laboratory and also concrete test on cubes to confirm with the design. Reviewed design calculations and made sure all engineering principles are followed and hence reducing project costs without undermining the structural integrity. Led a team of eight engineers on design projects.

- Organized meetings (site and office) with design team, contractors, and clients to present preliminary calculations, drawings and cost estimates, this helped in keeping the project flow according to schedule.
- Decreased cost 30% by coordinating a group of 10 designers and drafters to redesign a 32-floor project, using FEM software to model the concrete structure.

Seka Associates Consulting Engineers • Equatorial Guinea • August 2019 to December 2019

Team Leader

Headed a team of 10 in designing and preparing calculations for Ayala Apartment to meet the standard of Equatorial Guinea approval authorities. Drafted and organized drawings ready to be submitted to the authorities and in house design team like MEP, Architects and clients representative for harmonization.

- Achieved timelines by working efficiently while collaborating on a small team to comply with conservation and other local permit granting authorities.
- Gained experience in blueprint reading, preparing maps/plans, and writing technical specifications.
- Helped with cost-of-materials estimations, report and document tracking, project documentation, on-site project visits, invoice/agreement verification, and building permit applications.

Activities

MATHCOUNT Potomac Chapter Competition

Team leader Registration and Grading

- Math counts is national Mathematics enrichment program that supports middle school mathematics achievement.

Rotary international

Member Service Projects (RC Muyenga Tank hill)

- Rotary is nonprofit organization based on humanitarian grounds reaching out communities that are valunareble with service in SDG.

Future City National competition

Judge

- The 41 participating teams have spent the year creating innovative and futuristic cities that take on climate change and each won their regional competitions, earning a chance to compete at the International Finals! As a judge, I served on a panel with other volunteers to assess the students' presentations and models of their future cities and ask questions on how they adapt to the changes in society, resource availability, and economics.