

Yusuf Jaffer

Civil & Structural Engineer // Cape Town, South Africa // (+27) 827 213 020 // jaffer.yusuf@yahoo.com

PROFILE

Self-driven, energetic and fully qualified civil engineer of a high professional standard. Skilled in high level design (civil & structural), multi-billion dollar procurement and site leadership. Registered as a Candidate Engineer with Engineering Council of South Africa (ECSA), intending to pursue professional status.

EDUCATION

BSc. Civil Engineering (Honors) | University of Cape Town
2016 – 2019

Qualified in structural, civil, geotechnical, transport + roads, urban water planning.

EXPERIENCE

Junior Civil Engineer | DRA Global
2020 - 2022

- Project Delivery (Procurement): Editing contracts for multibillion level projects, extensive study and work on bills of quantity, request for tenders, scope of works and engineering design criteria documents.
- Civil & Structural Works (Design Office): Involved in high level design of civil and structural works for large scale projects, assisted in drafting of steel walkways and RC bridges, effectively planned mining village water demands and advanced labour supply, managed cut and fill elevation modifications.
- Site Experience (Phosphate Plant): Assisted as civil site supervisor for a processing plant, learned essential construction and inspection practices with regards to rebar and concrete, experienced in understanding technical drawings, experience in safety and successfully completed level 1 first aid training.

Construction Site Internship | WestcapeT
2019

- Observed and participated in construction activities to gain a deeper understanding of built environment. Included taking levels, utilizing quantity surveying equipment, digging trenches, laying pipes, laying bricks, mixing concrete, constructing manholes, installing rebar etc.

Structural Design Internship | Nadeson Consulting
2018

- Gained essential knowledge of both the structural and civil engineering design practices.

Teacher | Various
2015-2021

- Private mathematics tuition
- University of Cape Town employed engineering tuition
- Health and safety tuition of general workers in the built environment



SKILLS

Coding: Have a basic understanding of coding languages and clients including HTML, CSS, JS, Python and SQL. Can effectively use these to create and modify project data.

Structural Design: Experienced in the design of structural elements using SANS code. Designed own multi story building and underground parking garage as part of a team (university enrichment). Understand and can implement the design of beams, slabs, columns, retaining walls, foundations etc.

Road Design: Gained knowledge of the practices related to road design and construction. Performed an upgrade of a road network using the SANRAL manual (university enrichment). Therefore familiar with their practices.

Site/Water Development: Experienced in design of urban development's namely, water supply, sewerage systems and storm water design. Was involved in the design, report and drafting aspects for all three of these projects (university enrichment).

Geotechnical Design: Experienced in slope stability, soil and rock laboratory tests, AASHSTO + British standards, excavation and foundations.

Communication: Good communication skills developed through MS PowerPoint presentations. Experienced in remote working and communication with co-workers, maintaining the same level of efficiency as working in person.

Software: Competent in MS Office, AutoCAD, Revit, Robot, Prokon, Epanet, Civil 3D, OmniTRANS, Revit and Staad. Able to utilize this knowledge to create reports, design civil and structural elements, modify road networks and manage water reticulation systems.

Site Supervision: Experienced in managing the wellbeing of site workers, civils inspections and safety practices such as daily safety toolbox talks (wherein safety concerns for specific activities are identified and mitigated).



LICENSES AND CERTIFICATES

Registered Candidate Engineer
Project Management Foundations Course
Project Management Skills Course
Managing Project Stakeholders Course
Managing Team Conflict Course



INTERESTS

Software and coding
Psychology and client relations
Workplace wellness
Safety Practices



REFERENCES

Mr. Jeremy Waldron
DRA Global / Civil Project Engineer
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Mr. Binyamin Barsch
FlightScope / Mechatronic Development Engineer
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