

Eitel Mbanya Tchapdeu

Civil Engineer

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Curriculum Vitae

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Skills & Qualities

I am an enthusiastic addition to an engineering team, able to use my technical and interpersonal skills to solve problems and bring value to the overall business. My professional experience is based on technical delivery and project management of highways schemes, most of which are multi-disciplinary. I am proficient in AutoCAD, Civil 3D, KeyLines, KeySign and possess a good understanding of the BIM documentation process. I am a graduate member of the Institution of Civil Engineers (G.M.I.C.E) with an ongoing training agreement to become chartered and I have a full UK driver's licence.

Experience, projects & roles

WSP in the UK / Graduate Engineer

November 2022 – Present, National Highways, SDF 3D Lite A30 St Erth Roundabout to Mellanear Road & A303 Countess Roundabout Resurfacing

These are three pavement resurfacing and road marking schemes, all at the feasibility stage. I led the technical delivery, conducting visual surveys of the road using up-to-date HD videos provided by the client and processing a construction dataset to produce HAPMS graphs to help assess the road condition and decide on the appropriate pavement treatment. I also conducted a traffic assessment and calculated the recommended Polished Stone Value (PSV) for specification following DMRB CD 224, CS 228 and CD 236 guidelines. The results were then brought to the client to receive feedback and agree on the design. I then supported colleagues from iCRC in producing the Pavement and Road Marking (series 700 and 1200) drawings using AutoCAD and KeyLines, bill of quantities, and works specification document and I worked closely with the CDM lead in producing the Design Risk Register and the Pre-Construction information package. I also coordinated with the environment team and structure team in producing supportive documents such as the Environmental Alert Form, the Equality Impact Assessment, and an Invasive Inspection request for some bridges. Additionally, I produced a variety of reports including the GG104 assessment, the Value Management Summary report, the Design Decision Register, the WCHAR Exemption note and the Asbestos Checklist.

WSP in the UK / Graduate Engineer

August 2021 – Present, Bath & North East Somerset Council, Bath Cleveland Bridge

This scheme involves providing Traffic Management support for the Bath Cleveland Bridge renovation project. I produced diversion sign faces and patch drawings using KeySign on request and went on a site visit to record and update all the diversion signage on local and major roads in the area as construction progressed.

WSP in the UK / Graduate Engineer

April 2022 – July 2022, Balfour Beatty on behalf of Somerset County Council, M5 Junction 23 Dunball Roundabout

For this project, I assisted with the production of the Walking, Cycling, and Horse-Riding (WCHAR) Assessment to support Balfour Beatty on the Design and Build of capacity improvements at the Dunball Roundabout on the A38 near Junction 23 of the M5. My work involved researching and reporting on public transport services and both present

and future trip generators within the study area. Furthermore, I took part in a site visit with colleagues to identify opportunities to facilitate the inclusion of all non-motorised road users within the scheme, which was then documented in AutoCAD drawings as part of the final report.

WSP in the UK / Placement Engineer

September 2021 – November 2021, West Sussex County Council, A281 Rudgwick Safety Improvement Feasibility Study

The project involved optioneering a pedestrian, equestrian and cyclist crossing at a mountain bike trail junction with the A281. This was following an accident study report conducted by the client, which revealed critical and fatal accident events. I helped with ideating and generating drawings of crossing options, including controlled and uncontrolled crossings, a Pegasus crossing and a small overbridge. The bridge crossing was the preferred option, and I had the opportunity to work with a structures and bridge colleague on producing the detailed design AutoCAD drawings and a design technical note, which was rewarding as I gained a better appreciation of the interaction between bridge structures and the road.

WSP in the UK / Undergraduate Placement Engineer

April 2019 – June 2019, Highways England, KSH ASW Pumping Station Feasibility

For this project, I got to work with the water team to check the condition of several pump stations in response to pump failures that had caused flooding on roads and footpaths used by pedestrians and cyclists. I was part of a group with two mechanical engineers and undertook a 2-day site visit in the region of Salisbury and nearby to conduct visual inspection and documentation of pumping station conditions. I documented our findings and produced the condition assessment report, which fed in the feasibility study report, providing design options for improvement and renewal works.

Education & Learning

University of Bristol / Masters in Civil Engineering (MEng)

September 2016 - June 2021, Upper Second Class (2:1)

My study of Civil Engineering at Bristol is accredited by the ICE, IStructE, IHE & CIHT. Group design projects were a significant feature of the course, combining technical engineering design problems with interpersonal and teamwork challenges. I took the opportunity to learn about topics based on contemporary research from academics active in their field. These included modules in topics such as Infrastructure Systems Management, Design for Wind & Marine Power, Sustainable Construction, Hydrology, Water Engineering, Innovation, Entrepreneurship and Enterprise, Disaster risk reduction and Hazards in infrastructure.

Professional & Vocational qualifications:

- Graduate Member of the Institution of Civil Engineers
- Emerging Professional Forum office lead
- CSCS card holder
- LEAN and Continuous Improvement level 2

Interests & achievements

I enjoy playing basketball and I am also an avid chess player. I am currently learning boxing, and I hope to compete in the future. I am also quite outgoing when it comes to social events. Recently, I set up a homework club at my local church for youth in secondary schools, where I recruited university students to get involved. I also enjoy promoting engineering through school STEM activities, and I am currently the industrial mentor of four first year Civil Engineering students from the University of Bristol.