

## PERSONAL DETAILS

# TAKALANI LATANI NETSHIPALE

ECOSA REGISTRATION: CANDIDATE 2018200093 / SAICE MEMBER: 201401053

**Current and Postal Address:** 25 Villa Strelitzia, 6829 Waterberg Rd, Cosmos View Estate, Centurion, Gauteng, 0157  
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**Nationality:** South Africa  
**Date of Birth:** 1994-10-14  
**Gender:** Female  
**Language:** English, Afrikaans, Tshivenda, Setswana, Sesotho



## QUALIFICATIONS

- Honours Degree in Civil Engineering (BEngHons) (In progress), University of Pretoria – 2022
- Certificate: Fundamentals of Project Management, University of Witwatersrand - 2018
- Bachelor's Degree in Civil Engineering (BEng), University of Pretoria – 2017

## COURSES

- Certificate: FIDIC Gold Book, C D Binnington – BCA Training - 2017
- Certificate: Autodesk University – BIM Technology – 2018
- Certificate: SAICE Hydropower utilising existing water infrastructure Lecture – 09/2018
- Certificate: SAICE Ready Mix Concrete (CPD Validation: SAICEcon17/02127/18) – 2017

## SPECIAL SKILLS/ABILITIES

- MS Office & JDE Procurement System
- Project management aspects
- Supervision of resources and teams
- Concrete work management and construction
- Estimating, Cost optimisations and saving
- Earthwork management and construction
- Dilligent and fast learner
- Great Engineering judgement (for calculations and assumptions on site)
- Great communications and presentation skills with clients, teams and managers
- Able to work under pressure
- Efficient problem solver
- Quality Driven to ensure the finer details are according to standard

## COMPUTER SKILLS

- MS Office – Word, Excel, PP, Project
- JD Edwards Procurement
- CivilFEM
- BLU and IBM Notes
- Understanding of Python and Excel macros.
- EPASWMM, EPANET, HEC-RAS, GeoStudio
- Data collection and analysis skills
- Quantitative and qualitative research skills

## WORK SUMMARY

Takalani is a young, challenge-driven, multi-disciplinary civil engineer with a broad spectrum of skills and eagerness to learn more. She has 3 – 4 years of versatile civil experience.

She works with various teams to *fabricate* and *construct* in the *earthworks*, *concrete* works, and *structural steel* disciplines. She proposes new costed and optimized ventures to potential investors and companies from start to logistics, aids in *tendering* and negotiations for upcoming projects.

She prepares *pre-planning programmes*, costs and tools to ensure *optimisation* throughout the project, with moving-alternatives.

Her biggest achievements include optimising programmes, costs and company operations to save time, costs and resources at the *WBHO Fine Ash Dam 6 Project* and *Intertoll Africa* for West African tolling projects.

## WORK EXPERIENCE / EMPLOYMENT HISTORY

**June/2020 to Current: Business Manager – Analytics Advertising:**

**Projects with ProNutro, PPC, Inqaba Biotech, Nestle**

**Celebrity work with Makhadzi, Mo & Mome, Brian Temba**

- Analysing client requirements, Liaising and communication with clients.
- Identifying the required target market for clients
- Comparing the industry of the clients with their competitors on social media and other platforms.
- Developing strategies for the clients' requirements.
- Managing created content for the client and client brands.
- Evaluating the outcome and engagements on clients' social media platform.
- Extracting data from paid media with regard to the target market that engaged with the clients posts.
- Analysis the benefits of the campaigns and posts on the clients social media.
- Developing strategies for better client exposure and improvements on the content created for clients.
- Developing strategic costs for clients to suit their budget.
- Developing and implementing posting schedules for the clients' social media management.

**Apr/2019 to Jun/2020: Site Engineer – WBHO Construction:**

**Projects – FAD 6 Phase 1.1 and 1.2-1.4 – Roads & Earthworks – R1.6 billion**

- Managed teams to fabricate and construct in the earthworks, concrete works, and structural steel.
- Produces efficient pre-planning programmes, costs and tools to ensure optimisation throughout the project, with moving-alternatives.
- Teams managed (team sizes between 5 and 13): Concrete – 3, Earthworks – 3, Structural steel – 2.
- Structures constructed and completed: CW (Concrete Works), SS (Structural Steel), EW – Earthworks, LN – HDPE Liner Installation:
  - Effluent Canal Road Drift – Structure for vehicle throughput an effluent canal: CW & EW.
  - Slurry Line Plinths and Expansion Loops – Construction of pipe supports for drainage: CW, SS & EW.
  - Mini-substation 2,3,4,5 – Substations to provide electricity to structures on site: CW & EW.
  - Inspection manhole structural steel – Inspection manholes for the drainage system. SS & CW.
  - Ash Trap Effluent Canal CH000 to CH450 – An effluent canal for site effluent: CW, SS, EW & LN.
  - Pipe culverts and inlet structures of Ash Trap 1, 2, 3 – Pipe culverts retaining silt: CW, SS, EW & LN.

**Reason for leaving:** Retrenchment

**Dec/2017 to Mar/2019: Civil Engineer Project Coordinator – Intertoll Africa (Group Five):**

**Toll Operations and Maintenance projects for N2 North, N1 South, N4 West, Marianhill Toll Plaza – Each project ranging between R300 million – R700 million**

- Design toll plazas, the adjacent roads and Intelligent Transport systems for the new/existing roads.
- Planning, initiation, description and development of a new innovative, Freeway Management System.
- Producing Bills of Quantities for relevant projects with regard to civil works and toll equipment supply.
- Analyse and optimise traffic data to optimise road design, toll plaza design and toll plaza operations.
- Producing essential road maintenance components of Integrated Solutions.
- Preparation and interpretation of project flowcharts and schedules using of MS Project and MS Excel.
- Developing map layouts and assisting with road visual assessments.
- Create and maintain comprehensive project documentation, plans and reports.
- Identify progressive marketing strategies for Intertoll solutions.
- Coordinate project management activities, resources, equipment and information.
- Liaise with clients to identify and define requirements, scope and objectives for the upcoming projects.
- Register the company on various boards for compliance purposes (CIDB and Department of Labour).
- Assist Project Development Director with Issuing of all legal contracts and terms of agreement.
- Oversee project procurement interactions through the utilisation of the JDE system.

**Reason for leaving:** Requirement for growth and better career opportunities

**Dec/2016 – Dec/2017: Graduate Engineer – Intertoll Africa (Group Five), Gauteng  
Toll Operations and Maintenance projects for N2 North, N1 South, N4 West , Marianhill Toll Plaza – Each project ranging between R300 million – R700 million**

- Pricing of Bill of Quantities for a new Intertoll invention (InstaToll), suitable for erection in Maputo, Mozambique and Zimbabwe – R1 million for three lanes (Transport).
- Redesigning Intertoll's mobile toll plaza design, including optimizing the available resources to suit the new design.
- Developing electrical line drawings, map layouts and assisting with road visual assessments.
- Identifying, managing and assisting in current tenders relevant to Intertoll Africa and its partnerships.
- Design of the InstaToll Toll Plaza, suitable for different countries with different requirements.
- Optimise costs and redesigning of toll booths and toll booth canopy for Maputo Toll Plazas.
- Give engineering judgement on civil drawings Intertoll is currently managing and implementing.
- Identify private sector clients for Intertoll's Integrated Solutions currently being worked on.
- Producing essential Road maintenance components of Integrated Solutions.
- Attending site meeting, briefing meetings and other locations to meet with clients.

**Reason for leaving:** Promotion

### **VACATION WORK EXPERIENCE**

**June/2016 - July 2016: Student Engineer – Group Five - Head Office, Gauteng**

- Assist the Estimating team (under the Civil Engineering) with the tasks at hand.
- Understand the fundamentals of working as an Estimator in the Civil engineering department.
- Understanding how to complete and submit a tender (financial and technical submission).
- Helping the estimators with printing and filing of current projects.
- Archive and label all previous project estimation files.

**Jan/2016 to Feb/2016: Student Engineer – Group Five Head Office, Midrand, Gauteng**

- Learn how to use and interpret latest construction engineering software.
- Finding solutions to new project infrastructure developments.
- Calculations for new developments and feasibility studies.

**Dec/2014 – Jan/2015: Student Engineer – Group Five, Temba Water Purification Site, Gauteng**

- Supervision of supervisors and labourers working on site.
- Concrete calculations and pouring (columns and paddle flange).
- Finding solutions to existing problems.
- Filling in timesheets for the head office (paperwork).
- Trench backfilling and other earthworks & Testing and compaction of earthworks.
- Ensuring that site is clean and safe.

### **TRAINING/WORKSHOPS/SEMINARS**

Jan 2016-Dec 2016	STARS Mentorship, UNIVERSITY OF PRETORIA, Gauteng <ul style="list-style-type: none"><li>• <b>Mentor certificate</b></li></ul>
Jun/2015– Present	Golden Key International Honour Society, Pretoria, Gauteng <ul style="list-style-type: none"><li>• <b>New member recognition Certificate</b></li><li>• <b>Award: Golden Key Lapel pin</b></li></ul>
Jan/2015- Oct/2015	STARS Mentorship Programme, UNIVERSITY OF PRETORIA, Gauteng <ul style="list-style-type: none"><li>• <b>Mentor certificate</b></li><li>• <b>Award: Top Mentor 2015 Trophy</b></li></ul>
Jan/2014– Dec/2014	JCP Community project, UNIVERSITY OF PRETORIA, Pretoria, Gauteng <ul style="list-style-type: none"><li>• <b>Helped paint rooms and do repairs at Sunnyside Orphanage</b></li></ul>

## TERTIARY & SECONDARY EDUCATION RECORDS

Jan/2013 - Nov/2016

Institution: UNIVERSITY OF PRETORIA, Pretoria, Gauteng

**Tertiary Qualification: Bachelor's Degree in Civil Engineering**

### Results:

1 <sup>st</sup> year			2 <sup>nd</sup> year		
Course	Course Description	%	Course	Course description	%
HAS 110	Humanities and social sciences	66	SWK 211	Statics	54
HAS1120	Humanities and social sciences	68	SJJ 210	Prof. and tech. communication	75
EBN 122	Electricity and electronics	62	BES 220	Engineering statics	69
MGC 110	Graphical communication	71	JCP 203	Community based project	95
NMC 113	Materials science	57	SBZ 221	Civil eng. measurements techs	66
SWK 122	Mechanics	59	SGM 221	Pavement material and design	64
SWP 121	Workshop practice	100	SIN 223	Structural analysis	57
CHM 171	General chemistry	67	SWK 210	Strength of materials	54
FSK 176	Physics	68	WTW 238	Mathematics	68
WTW 158	Calculus	62	WTW 256	Differential equations	65
WTW 161	Linear Algebra	56	WTW 258	Calculus	69
WTW 168	Calculus	63	SGM 210	Geomaterials and processes	69
3 <sup>rd</sup> year			4 <sup>th</sup> year		
Course	Course Description	%	Course	Course description	%
MPR 213	Programing techniques	50	IPI 410	Engineering Professionalism	67
SGM 311	Soil Mechanics	67	SHC 410	Hydraulics	75
SHC 310	Hydraulics	61	SIN 411	Steel design	75
SIB 310	Timber design	76	SIN 413	Reinforced concrete design	66
SIE 310	Civil Engineering economics	66	SPY 410	Practical Training	100
SIN 311	Structural analysis	52	SVC 412	Infrastructure Planning	72
SGM 323	Geotechnical engineering	78	SDO 420	Detailed design	60
SHC 321	Hydraulics	64	SBZ 420	Civil eng. construction management	61
SIN 323	Steel design	64	SEV 421	Environmental geotechnology	69
SIN 324	Reinforced concrete design	70	SSC 413	Research project	65
SVC 323	Transportation engineering	65	SCA 420	Computer applications in civil eng.	66
			IPI 410	Engineering Professionalism	67

Jan/2008 – Dec/2012

School: HOERSKOOL AKASIA, Pretoria, Gauteng

### National Matriculate Certificate

Mathematics, Physical Sciences, Accounting, Engineering graphics and design, English Home Language, Afrikaans First Additional language, Life orientation, Mathematics paper 3

### STATEMENT

*I am a passionate civil engineer, highly interested in structural and hydraulic engineering, as it is a vital industry that needs upcoming young engineers to steer the country's needs in the right direction. Consider my application as a form of seeking to learn and grow with a company that also wants to achieve massive goals, while training and developing the young. It would be an honour to hear from you.*

### REFERENCES

WBHO Construction  
Assistant Site Agent  
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