

CURRICULUM VITAE OF PHELELANI GUMEDE

PERSONAL DETAILS

Surname:	Gumede		
First Names:	Phelelani		
Date of Birth:	30 December 2002		
Physical Address:	E460 Nhlanhla Maphumulo Road, Umlazi, Durban 4127		
Cell Phone No:	064 912 8399	E-mail	thalentephelelani@gmail.com
Gender:	Male		
Marital Status:	Single		
Nationality:	South African		
Languages:	IsiZulu and English		

HIGH SCHOOL EDUCATION

Institution:	Bhevula Secondary School
Highest Grade Passed:	Matric (grade12)
Stream:	Mathematics and Science
Year:	2021

HIGHER EDUCATION

Institution:	University of Zululand
Course:	Bachelor of Science in Biochemistry and Microbiology
Biochemistry & Microbiology competencies:	• Microbial research, laboratory analysis, and antimicrobial testing. • Proficient in microorganism isolation and characterization, Gram staining, sub culturing, inoculation, and antimicrobial susceptibility testing. • Experienced in conducting laboratory-based research projects on marine microorganisms and bacterial contamination, with strong skills in data analysis, interpretation, and scientific report writing. • Demonstrates solid knowledge of infection control, laboratory protocols, and microbial behavior.
Status:	Completed
Year Obtained :	2025

WORK EXPERIENCE

Company :	University of Zululand
Position:	Laboratory Research Assistant (Academic Project-Based)
Job Description:	▪ Conducted microorganism isolation and characterization using standard laboratory techniques, successfully supporting accurate identification of halophilic and bacterial strains. ▪ Performed Gram staining and microscopy, improving accuracy in bacterial classification and reducing identification errors during experiments. ▪ Carried out antimicrobial susceptibility testing, contributing to reliable analysis of bacterial resistance patterns for research outcomes. ▪ Maintained aseptic techniques and laboratory safety standards, minimizing contamination and ensuring consistent experimental results. ▪ Prepared and managed microbial cultures through subculturing and inoculation, ensuring sustainable and viable samples throughout research processes. ▪ Collected and prepared biological samples using controlled methods, enhancing the reliability and validity of laboratory findings.
Year :	2025

ACADEMIC RESEARCH PROJECTS	
Institution:	University of Zululand
Research Study:	Marine Microorganism Bioremediation Study
Research Activities:	- Isolated and identified halophilic microorganisms - Performed Gram staining and basic lab techniques - Analyzed microbial behavior for bioremediation - Wrote a report on findings
Year :	2025

Institution:	University of Zululand
Research Study:	Bacterial Contamination & Antimicrobial Analysis
Research Activities:	- Investigated bacterial contamination in samples - Conducted antimicrobial resistance testing - Used sub culturing and staining techniques - Reported results for infection control insights
Year :	2025

SKILLS AND COMPETENCIES
Microsoft Office (Word, Excel, Access, Outlook and Internet)
Problem solving skills
Communication skills
Ability to multi task
Responsible, Committed and punctually
Time Management
Identifying and separating microorganisms for further study
Classifying bacteria based on cell wall structure using staining.
Determining bacterial resistance or sensitivity to antibiotics.
Growing and maintaining microorganisms in controlled environments.
Applying microbial knowledge to environmental clean-up processes
Collecting and preparing samples for accurate testing.
Interpreting laboratory results to draw conclusions.
Documenting experimental procedures and findings clearly.
Following procedures to prevent the spread of infections

REFERENCES			
Company/ School	Contact Person	Position	Contact Numbers
University of Zululand	Mr Shandu	Lecturer	035 902 6201 Shanduj@unizulu.ac.za
University of Zululand	Dr Freedom Tshabuse	Lecturer	035 902 6098 Tshabusef@unizulu.ac.za
University of Zululand	Prof: Evelyn Madoroba	Lecturer	035 902 6817 MadorobaE@unizulu.ac.za
Bhevula Secondary School	Mr Ngcobo	High School Teacher	071 594 6498