

# CAREER GUIDANCE REPORT

## About the Mentee:

### About:

**Name:** Amahle Amambo Mkhize

**Age:** 17 years old

**Education Level:** Primary school and in the process of completing High school

**Contact Information:** (mobile): 082 834 1900

**Current Employment Status:** Student

### Interests:

Amahle is a driven, passionate individual who effortlessly portrays her intelligence, wit and fun energy both socially and within her academics.

Between her dedication to her studies, Amahle enjoys spending quality time with her friends, creating memories together on their endless adventures. She additionally takes part in academic, eco-conscious competitions to which her, and when relative, her team, excel in the fields of robotics, sustainability and other related fields. She is passionate about the fields of engineering, specifically civil and computer engineering, and she is driven to make her mark within these fields. Another interest of Amahle's is the field of law, however, with her selected subjects, she is more inclined towards the fields of engineering. She is creative and additionally, holds the key characteristics of an entrepreneur which she exercises in her role at the school tuckshop as well her own personal hair accessories business.

### Skills:

Amahle is humbly talented within her academics: she not only prides herself by working hard to be in her Grade's Top 10 but she does so in a graceful manner whilst "keeping the grind" to achieve great results within her matric finals. Despite her academic abilities, Amahle is a kind-hearted individual whose company is something to be treasured. Her dedication and persona is both inspiring to not only her peers, but also to her mentor who has been blessed to have spent time with her through the JCP program. With this, it would be impossible to not recognise Amahle's academic skills but also her ability to work alongside with a team, whilst also establishing strong foundational bonds between her peers. Her skills include her drive, her

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resilience, her selflessness and problems-solving skills. Her communication and people skills allow her to both deliver A+ work as an individual but also allow for her to do so within a team environment. She would be an asset to any environment she finds herself in as she is a product of her hard work. Amahle has taken part in the UN youth association club where she has learned the valuable skills of debate which she further practises at her debate club at school. Exercising her skill in spoken language, Amahle has also taken part in national competitions for unprepared reading. As a pass-time, she enjoys her time spent on the netball courts as a first-team player.

## Career Paths

### Path 1: Civil Engineering

- Overview:

Civil engineers are professionals who design, construct, and maintain infrastructure projects essential for modern society, including buildings, roads, bridges, dams, and water supply systems. They apply principles of mathematics, physics, and mechanics to develop safe, sustainable, and cost-effective solutions to various engineering challenges. Civil engineers collaborate with architects, urban planners, and environmental scientists to ensure that projects meet both functional and aesthetic requirements while considering environmental impact and public safety. Their work encompasses a wide range of disciplines, from structural engineering to transportation planning, playing a crucial role in shaping the physical environment in which we live.

- Reasons for Consideration:

Amahle would be a strong candidate for this field as her ability to solve problems whilst being capable of communicating her solutions efficiently and effectively is above average requirement. She is also capable of holding herself accountable and with that, her drive would allow for her to easily grasp project management. Her academic success not only allows her to qualify to this field but additionally be able to continue learning within this field which is known for its life long learning environment.

- Potential Industries or Sectors:

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This sector is relevant and in demand globally and locally - Amahle's goal to study overseas can complement this fact if necessary. The field can focus on transportation, the environment and infrastructure, to which Amahle is strong due to her participation in sustainable development competitions. Her adaptability can also allow for her to further explore the field within a variety of avenues and disciplines.

- Skills Required:
  - Problem solving
  - Communication
  - Self-sustainability and Team environments
  - Project management
  - Interests in sustainability
- Bursaries
  - Group 5: [http://www.g5.co.za/careers\\_student.php](http://www.g5.co.za/careers_student.php)
  - <https://saice.org.za/spebs-saice-patrons-engineering-bursary-scheme/>

### Hiring Companies:

- List potential companies that hire for this career path.
  - (local and global) WSP
    - learn more: <https://www.wsp.com/en-za>
  - (international) Jacobs Engineering Group
    - learn more: <https://www.jacobs.com/>
  - (local) Group Five
    - learn more: <http://www.g5.co.za/>

### How to Apply:

- Jacobs Engineering Group:
  - <https://careers.jacobs.com/>
  - Make use of their keyword/job number text prompt as well as utilise their location prompt feature so enquire about jobs on a global scale.
  - Ensure that you have a completed CV and enquire about jobs at their various locations
- WSP

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- <https://www.wsp.com/en-us/careers>
- Make use of their search prompt if needed
- Select a job that interests you, to apply you will need to make an account on their site however this could potentially be useful to be updated on new jobs within your area.
- Ensure that you meet all qualifications before application.
- 
- Group Five
  - [http://www.g5.co.za/careers\\_main.php](http://www.g5.co.za/careers_main.php)
  - TAKE A LOOK AT THEIR STUDENT PROGRAMMES
  - You will be rated according to their set key performance areas (KPA's), so ensure that you take a look at their measure to see what is attractive to their company
  - Listed vacancies will then be displayed to you from which you can make formal applications and from there you will be considered or not.

## Career Paths

### Path 2: Computer Engineering

- Overview:

Computer engineers are professionals who combine principles from electrical engineering and computer science to design, develop, and maintain hardware and software systems. They possess a deep understanding of digital electronics, computer architecture, and programming languages, allowing them to create innovative solutions for a wide range of applications. Computer engineers may work on designing microprocessors, developing embedded systems for electronic devices, optimising computer networks, or creating software applications. Their expertise spans hardware design, software development, and system integration, making them essential contributors to the advancement of technology in fields such as telecommunications, robotics, artificial intelligence, and information technology. Computer engineers play a pivotal role in shaping the digital landscape of the modern world, driving innovation and progress in an ever-evolving technological landscape.

- Reasons for Consideration:

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Computer engineering is among many challenging fields today however, those who are dedicated, driven and are self-motivated will be able to navigate through this field efficiently. Amahle's resilience and academic dedication not only makes her an ideal candidate for this field however, she is further complemented by her problem solving skills, efficient communication and like civil engineering, her ability to continue learning.

- Potential Industries or Sectors

South Africa is currently growing within its technology sector, and urban centres such as Johannesburg and Cape Town are the hub for IT companies, start-ups and research institutions. There is currently a huge demand in the fields of software development, network engineering, system administration and cyber security. Not only are these fields in demand here in South Africa, but also on a global scale.

- Skills Required:

- Attention to detail
- Creativity and innovation
- Education
- Problem solving

- Available bursaries

- Telkom: <https://bursaries.co.za/bursaries/telkom-bursary/>
- Allan Gray Orbis Foundation: <https://allangrayorbis.org/>

### Hiring Companies:

The best route to discovering more business opportunities within this field is by creating a LinkedIn profile and going through the various job listings out there. Due to the global demand for computer engineers, jobs are not limited locally and can be explored to a global platform. However, initial experience in a local company is always favourable to global employers, hence, here are some top South African companies that are known for their role in the fields of IT.

- Telkom
- Santam
- AWS

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## How to Apply:

- Download LinkedIn as an application on your device else, make use of a of their online website to gain access to local and international job opportunities.
- Create a profile, create a general CV for now as you are currently obtaining your matric results.
- Use the search bar and related filters to narrow down your job search according to your preferences and location
- Read through the descriptions, requirements and expectations of the listings and if you find an ideal listing, press the apply button
- All jobs are unique - the further process of application will vary from company to company however, be expected to be able to undergo potential test-trials, especially for jobs that require extensive coding knowledge
- <https://www.linkedin.com/feed/>

## Additional Recommendations

### Networking Opportunities:

- By joining student groups such as the JuniorTukkies programme at the University of Pretoria or any other tertiary institution, you further increase your chances of networking with like-minded individuals, gain access to more resources of your field of interest as well as potentially increase your chances of acceptance into that institution. Bursary programmes and applications to certain businesses not only allows for you to take advantage of their available resources but it may additionally assist you to secure a job in a company once you complete your studies.

### Professional Organisations:

- Join LinkedIn and gain insight into the various job opportunities out there, what is in demand and what you are expected to do within those fields.
- By making use of the various student groups lead by tertiary institutions, you may be able to further be introduced to institutions eager to engage and support young professionals when navigating through their field of interest.

### Mentorship Programs:

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- With your active engagement and participation within your mentorship program, not only will you gain personalised advice but you additionally will gain a support structure that is here to motivate you into achieving your goals.
- Ask tough questions: be it about your field of study or how to navigate around a hardship academically, socially or individually, your mentor is here to offer open ears and are here to watch you soar!

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