

THAPELO MELATO



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☎ 067 021 1685

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Midrand, 1682

📅 2000-06-20

🚩 South African

🔒 Single

🚗 in progress

🌐 [linkedin.com/in/melato-thapelo-
b4241121a](https://www.linkedin.com/in/melato-thapelo-b4241121a)

✅ Immediately

📄 OBJECTIVE

Electrical and Electronics Engineering graduate with a strong foundation in electrical systems, electronics, programming, and emerging technologies. Skilled in Python, MATLAB, Embedded C, Arduino/ESP32, and engineering simulation tools, with practical experience gained through academic projects involving IoT, machine learning, automation, and plant monitoring. Eager to apply my technical knowledge, problem-solving abilities, and willingness to learn while developing as an engineering professional and contributing to innovative solutions

🏆 ACHIEVEMENTS

Best student Grade 11, Mathematics, Physical Science and Geography category

Reference: E. B Tlhapani

💼 EXPERIENCE

Eskom

Electrical Engineering Intern

06/2023 – 07/2023 | Germiston, South Africa

Undergraduate experience

- Learned how Eskom conducts remote analysis of power distribution systems across the country to identify trends, inefficiencies, and areas requiring maintenance.
- Compiled and presented technical reports on power distribution performance to assist decision-making and planning.
- Gained exposure to energy management strategies and optimization of transmission infrastructure.
- Collaborated with a team to ensure the reliability and stability of national power supply systems.

🎓 EDUCATION

Bachelor of Electrical and Electronics Engineering

University of Johannesburg

2024

Completed

Bachelor of Engineering Technology in Industrial Engineering

University of Johannesburg

2020

Results Attached – 72%

Grade 12 Matric – Bachelor Pass with 71% Average

Sediba-Thuto Secondary School

2019 | Sasolburg, 1949

Results Attached Sesotho Home Language 67% English
Second Language 61% Geography 60% Physical Science
90% Life Sciences 89% Mathematics 71% Life
Orientation 60%

🧠 SKILLS

Technical Skills

- Proficient in Electrical and Electronics Engineering concepts
- Strong analytical and problem-solving skills
- Ability to interpret technical diagrams and schematics
- Familiarity with engineering software tools (e.g., MATLAB, Embedded Programming)

Soft Skills

- Effective communication and collaboration
- Strong work ethic and commitment to tasks
- Adaptability to new challenges and environments
- Keen attention to detail

**Successfully Earned Bachelor of
Engineering in Electrical and
Electronics**

Reference: Prof Suné Von Solms

DECLARATION

I declare that all the above information is true and accurate on the description of who I am. Should you wish to interview me, I am available at any time convenient to you and can be reached at the following numbers: 067 021 1685, looking forward to hear from you.

FINAL YEAR PROJECT

Plant Monitoring System and Disease detection (Tomato Plants)

- Designed and implemented a system to monitor environmental factors such as temperature, humidity, and soil moisture.
- Integrated advanced sensors and machine learning algorithms to detect and classify plant diseases with high accuracy.
- Enhanced productivity by providing actionable insights for agricultural optimization.

REFERENCES

Ms E.B Tlhapani, *High School Teacher*
084 033 8014

Mr Mani Motsumi Dlamini, *Brother*
mani.dlamini@gmail.com, 062 164 8729

Prof Suné Von Solms, *HOD*
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