Halatedzi Nedombeloni

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EDUCATION

University of Johannesburg, *Johannesburg, Gauteng*   **Expected Graduation: March 2023**
Master of Engineering (MEng), *Electrical and Electronic Engineering*

University of Johannesburg, *Johannesburg, Gauteng*   **Feb 2018 - Nov 2021**
Bachelor of Engineering (BEng), *Electrical and Electronic Engineering*

EXPERIENCE

University of Johannesburg, *Johannesburg, Gauteng,* Android App developer   **Jun 2020 - Nov 2021**
- Developed an E-learning android application for a University of Johannesburg community outreach program.
- Collaborated with international curriculum facilitators (Bayoomhub) to set the aesthetic standards for the application.
- Responsible for ensuring the quality of the application before and after distribution to students.

Nedbank, *Sandton, Gauteng*, Student Vacation Work   **Jun 2019 - Nov 2021**
- Provided advice from a youthful perspective on certain products provided by the bank.
- Responsible for designing work procedures that would improve productivity and efficiency within the bank.
- Brought forth automation for processes that required manual spreadsheet processing.

LANGUAGES

Tshivenda, Native Speaker   **English**, Highly Proficient   **Afrikaans,** Proficient

TECHNICAL SKILLS

Programming Skills: C/C++ , Python3, Java, C#, HTML5 ,CSS, JavaScript(ES6), Assembly (x86-64)
Electronic Design Skills: PCB, RF and Embedded design skills. Surveillance Equipment Installation.

TECHNICAL PROJECTS

Computer Vision Fugitive Detection System, *final year project*   **Feb 2021 - Nov 2021**
- Built a face detection software and hardware system in python3 that can detect faces of interest(fugitives) in large crowds and alert concerned individuals (law enforcement).
- Designed for large scale use, country wide
- Made use of high resolution cameras and network apparatus such as switches and fiber optic cables.

Serious Game for Telecommunications Application, *Master's Project*   **PRESENT**
- Developing a Serious Game to teach Hamming Codes to students in Unity(C#).
- Makes use of educational data mining techniques to determine learning rates in observed student performance.

Automated Temperature Measurement System Through IoT, *Doornfontein Mine Project* **PRESENT**
- Installed multiple temperature and humidity sensors in a mine in Doornfontein.
- Connected these sensors through the internet to an Internet of Things database (Thingspeak).
- Developed a dashboard website in HTML5, CSS and JavaScript to visualize in real time the temperature and humidity of these locations.
- Used an API to send SMS' to the mine administrators phone when the atmospheric conditions exceed a certain threshold.

REFERENCES

University of Johannesburg

Dr Reolyn Heymann
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University of Johannesburg Community Engagement Projects
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Nedbank

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