



Athenkosi Hlonyane

Mechatronic Engineering, Student

A scientific minded individual who implements abstract ideas into practical solutions. A problem-solver who is organized, analytical, and works well in a team. An innovative, system-oriented, robotics enthusiast who is in his penultimate year of study at Stellenbosch University

Contact me

14 Ngesi Street, Kwanobuhle,
Uitenhage, EC 6242

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call me : (+27) 66 255 6042
portfolio : LinkedIn Profile®

Skills

Research and Data Analysis
Leadership
Collaboration
Electromechanical Systems Design
Technical Troubleshooting
Cross-functional communication

Engineering Skills

Autodesk Inventor	95%
MATLAB	90%
Xilinx Vivado, VHDL	80%
STM32, Arm Cortex-M	75%
C/C++, Java Script	70%
SQL, Python	60%

Languages

English : *Home Language*
IsiXhosa : *First Additional*
German : *Basic*

Education & Certificate

2021 - Present	Mechanical Engineering (Bachelors Degree) <i>Technical University of Munich / Germany</i> <ul style="list-style-type: none">Semester Exchange
2018 - 2022	Mechatronic Engineering (Bachelors Degree) <i>Stellenbosch University / Stellenbosch, WC</i>
2013 - 2017	National Senior Certificate <i>Muir College Boys' Highschool / Uitenhage, EC</i>

Work Experience

2019	Mechatronics Apprentice <i>Volkswagen S.A (Pty) Ltd / Uitenhage, EC</i>
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An intense 5-week programme where I designed hydraulic circuits, electrical light circuits and electronic circuits given multiple problem scenarios. Analyzed each of the above designs, including existing designs for points of failure, and implemented failure prevention methods to ensure design for safety was adhered to. Performed basic programming on KUKA Industrial robots.

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To
Recruitment Officer

21 June 2021

Dear Sir / Madam

I hereby apply for the funding opportunity as advertised on your website. I am a former dux scholar at Muir College Boys' High school currently pursuing a bachelors degree in mechatronic engineering at Stellenbosch University. I believe that I am a suitable candidate for this prestigious opportunity.

I believe that I possess all the attributes of a leader and I am the ideal candidate that you are looking for to contribute significantly to the long-term growth and development of the companies brand. I am aware of the heavy impact the company has in society and I would like to contribute to the mission. I will be an easy transition into the working environment due to my time spent at Volkswagen S.A.

I believe that I am well equipped coming from, Stellenbosch University, an institution with one of the consistently top-ranked engineering programs in South Africa. This institution has seen me explore research, and report writing while working to meet multiple project deadlines. I have designed, developed and tested mechanical and electronic systems. And improved existing one's utilizing Autodesk Inventor, and C (programming language). I have designed, and implemented a CPU using STM32. Most of the projects mentioned have been achieved while maneuvering with group dynamics, within demanding timeframes.

The Technical University of Munich in Germany, ranked number one in the world for innovation, has expanded my knowledge in Mechanical, Electrical, and Computer Engineering. My time there has exposed me to Database design and manipulation using SQL, Machine Learning and Data Structures using Java, and efficiently communicating with hardware using VHDL (IEEE industry standard hardware programming language). I gained insight in Human-Centered Robotics, while building a robot using the Robot Operating System (ROS).

I find myself in dire need of financial assistance to further my studies. I have confidence that my academic achievements will serve as evidence that I have invested a lot of time and energy in my studies to ensure that I am able to attain financial aid and pursue my dream career.



Sincerely yours
Athenkosi Hlonyane
B.Eng Mechatronics

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