



# 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

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

## Work Experience

2019	<b>Mechatronics Apprentice</b> <i>Volkswagen S.A (Pty) Ltd / Uitenhage, EC</i>
------	---

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.

# Athenkosi Hlonyane

Mechatronic Engineering, Student

To  
Recruitment Officer

21 June 2021

Dear Sir / Madam

I hereby apply for an internship 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 - an IEEE industry standard hardware programming language. I gained insight in Human-Centered Robotics, while building a robot using the Robot Operating System (ROS).

This year, being my penultimate year is a vital time for career planning and gaining valuable work experience. I have confidence that my academic achievements, and ventures in the mechatronics field will serve as evidence that I have invested a lot of time and energy in upskilling myself to ensure that I am ready, and well equipped in pursuit of my dream career.



Sincerely yours  
**Athenkosi Hlonyane**  
*B.Eng Mechatronics*

14 Ngesi Street, Kwanobuhle, Uitenhage, EC 6242

email : hlonyanea@gmail.com  
call me : (+27) 66 255 6042  
portfolio : LinkedIn Profile®