



# Harry Nel

Mechatronic Engineering Student



## Profile

Fourth year Mechatronic Engineering Student at the University of Capet Town. My biggest hobby and past time is spending time in nature observing wildlife. This is not a traditional engineering skill but opens me up to different possibilities and understanding of engineering problems in our natural world. I am dedicated and hard working with my recent appointment as the Chairman of the UCT cricket club showing I can manage to achieve multiple goals at the same time.



## Work experience

2022  
↑  
2022

### Trainee for two weeks

*Cape Peninsula University of Technology*

- Learnt practical skills such as welding, cnc, basic hand tools and pneumatics.
- Had to work in multi-disciplinary teams.

2023  
↑  
2023

### Intern for three weeks

*Figment Design*

- Figment design is a company that designs solutions for banks to integrate rewards programmes with existing card machines.
- Sat in on PCB design sessions, performed fault finding and wrote basic code for them.
- Helped in the printing and assembly of the PCB boards



## Education

2019  
↑  
2015

### Michaelhouse

*Full boarding school*

#### Courses and Achievements:

- Was elected as Head of House and a School Prefect
- 1st team cricket and 5 As in matric.

2023  
↑  
2020

### University of Cape Town

*Mehcatronic Engineering Undergraduate*

#### Courses and Achievements:

- 65 percent GPA in first semester of 4th year
- 1st team UCT cricket and club chairman.
- Honours Thesis on developing a bird call detection device to be used to track migratory bird species in wetlands
- Designed machine learning algorithm to distinguish eagle noises for a camera trap.



## Contact



#### Email

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## Skills

- Effective Communication
- Adaptability
- Teamwork
- Leadership
- Time Management
- Problem Solving
- Javascript Coding
- Machine Learning proficiency
- MATLAB and Simulink
- Python Coding