



TALON SEWNATH

MECHATRONICS STUDENT

PROFILE

Results-driven, fourth-year Mechatronics student at the University of Cape Town with a desire to continuously improve. I am intrigued by challenges that require innovation and problem-solving. My discipline and dedication to my work and academics have allowed me to develop skills such as time management, planning, and organizing, which I have used to optimize my academic performance. I possess the ability to adapt rapidly, a skill I have learned through working in various environments during internships. My fascination with the robotics and software engineering industries has led me to gain skills with integrated circuits and various programming languages, which were self-taught through experimenting and discovery.

WORK EXPERIENCE

- University of Cape Town** 2024
Academic Tutor
 - Tutored Signals and Systems I, Signal and Systems II and Electronic Devices
 - Assisted with circuit debug sessions in the lab.
 - Responsible for marking tests and assignments.
 - Tutored students at tutorial sessions.
- Zutari Impact Engineers** 2023-2024
Student Intern
 - Updated PLC diagrams to enhance system efficiencies and troubleshoot issues.
 - Studied cable schedules and performed power calculations to ensure safe and efficient compliance with standards.
 - Analysed a machine learning system for condition monitoring of motors.
- Triocon Consulting Engineers** 2021-2022
Student Intern
 - Analyzed electrical schematics to ensure successful installation and meet building services specifications.
 - Configured and measured lux levels of electronic components.
 - Created an administrative solution to record and analyze schematics on a large scale.
 - Created templates to ensure a cost-accurate Bill of Quantity.

LEADERSHIP AND EXTRACURRICULAR

- Cape Town Cycle Tour** 2023,2024
 - Completed two 109km cycle races
- Investoc Society** 2024
 - Engaged with students across different faculties.
 - Attended meetings covering general politics, finance and technology.
- RCL Public Relations Officer** 2020
 - Represented the council of learners in public events and planned and organized meetings.
- William-Clark Orphanage** 2019-2020
 - Responsible for tutoring Mathematics to a class of Grade 7's.

CONTACT

+27 82 766 4471

talonsewnath@gmail.com

Cape Town

[LinkedIn](#)

EDUCATION

2021 - 2024

UNIVERSITY OF CAPE TOWN

- BSc Mechatronics
- Deans Merit (2021, 2022, 2023)
- Cumulative GPA: 80

2016 - 2020

DURBAN HIGH SCHOOL

- Average 91.4%
- Top Student 2019,2020
- Top 50 matriculant in KZN

SOFT SKILLS

- Communication
- Problem Solving
- Time Management
- Organizational Skills
- Collaboration
- Critical Thinking
- Adaptability

LANGUAGES

- English (Fluent)
- Afrikaans (Conversational)
- French (Basics)



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CERTIFICATIONS

- C++

HARD SKILLS

Software Proficiency

- Proficient in the following programming languages: Java, C++, Python and SQL
- Experience with Microsoft Suite
- Able to use software such as Kicad, Jupyter Notebook and GitHub

System Modelling

- Experience with Matlab, Simulink and Solid Works Simulation

Hardware Troubleshooting

- Completed projects with integrated circuit chips, motors and PCBs

Machine Learning

- Familiar with TensorFlow and SkLearn packages
- Built CNN, kNN and Random Forest models

Embedded Systems

- Knowledge of Instruction Set Architecture, Computer Architecture Fundamentals and FPGAs
- Experience with basic Verilog and HDL instruction sets

HOBBIES

My lifelong passion has been football, from which I have learnt loyalty, dedication, and leadership. I was selected for a trial through hard work and discipline at the Italian club, Genoa FC in 2017.

I have a long-standing interest in finance which drives me to read about investment and growth.

I recently started learning Dutch.

REFERENCE

Dr Andrew Wilkinson - Associate Professor

University of Cape Town

Phone: +27 82 728 6612

Email: andrew.wilkinson@uct.ac.za

Dylan White - Teaching Assistant (MSc Elec)

University of Cape Town

Phone: +27 72 605 7323

Email: whtdyl001@myuct.ac.za