

# Kashan Pillay

([kashanpillay.github.io](https://kashanpillay.github.io))

Cape Town, Western Cape  
(+27) 21 345 5678  
pilkas005@myuct.ac.za

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## PERSONAL PROFILE

I am a final-year Electrical and Computer Engineering student who is motivated by curiosity, problem-solving and a strong desire to keep learning. My industry experience from vacation work has given me practical exposure to engineering challenges, while my studies have strengthened my skills in Networks, Control Systems, Programming and many other electrical engineering sectors. I enjoy communicating and sharing knowledge, which I developed further by tutoring various courses. I see myself as adaptable, collaborative and committed to delivering thoughtful solutions and I am eager to bring this balance of technical ability and interpersonal strengths to any future roles.

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## WORK EXPERIENCE

### **Sasol Ltd:** Sasolburg, Free State *Control Systems Engineering Intern*

December, 2024 - January, 2025

My vacation work project was centred around Control Systems with a focus on PLCs and DCSs and their role in various plants at the Sasol One Site. Additionally, I was exposed to the culture of corporate South Africa and was given the opportunity to sit in meetings and operate as a member of the Control and Instrumentation team. At the end of my internship, I was tasked with presenting my work to various stakeholders. I was then recognised as the top-performing student in my discipline (Electronic Engineering).

### **University of Cape Town:** Cape Town, Western Cape *EEE3093S and EEE1007S Tutor*

July, 2025 - present

My tutoring responsibilities were for the courses EEE3093S (Networks) and EEE1007S (Introduction to Electrical Engineering). In this role, I facilitated laboratory sessions, guided students through complex concepts, and provided support to strengthen their understanding. I developed effective communication and mentoring skills while adapting my explanations to suit diverse learning styles. Beyond academic support, I also assisted in creating an encouraging learning environment that helped students gain confidence in tackling technical problems.

### **University of Cape Town:** Cape Town, Western Cape *CSC1015F and CSC1016S Tutor*

February, 2023 - November, 2023

My tutoring experience also extended to CSC1015F (Python Programming) and CSC1016S (Java Programming). In these courses, I supported students in developing their programming skills, problem-solving approaches and algorithmic thinking. I guided them through practical coding exercises and helped clarify challenging concepts in languages such as Java and Python. This role sharpened my ability to explain technical material in a clear and approachable way while also fostering patience, adaptability, and a genuine interest in seeing others succeed.

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## EDUCATION

### **University of Cape Town:** Cape Town, Western Cape *BSc(Eng) in Electrical and Computer Engineering*

February 2022 - present

I am currently studying towards a Bachelor of Science in Engineering in Electrical and Computer Engineering. I enrolled in 2021 and plan to complete my degree at the end of 2025.

# CURRICULUM VITAE OF KASHAN PILLAY

## Northwood School: Durban, Kwa-Zulu Natal National Senior Certificate (Bachelors Pass)

January 2017 - December 2021

I completed my schooling career, achieving my National Senior Certificate at Northwood School with an average of 90% for finals and 93% for trials. In addition to being elected a school prefect and tutor, I was awarded a White Honours Blazer (2020) – the highest honour awarded for Academics – for achieving an average of above 85%.

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## SKILLS

### Technical Skills:

- *Programming (Java, Python, SQL, C, Delphi, MATLAB, KiCAD, SolidWorks)*
- *Control Systems (System Modelling, PLCs, QFT, MPC, P&ID, RL)*
- *Networking and Communication Systems*
- *PCB Design*
- *Embedded Systems*
- *Digital Signal Processing (ML)*

### Professional and Interpersonal Skills:

- *Skillsoft Certifications in Business Ethics, Business Etiquette, Professionalism and Time Management*
- *Strong Written and Verbal Communication Skills*
- *Mentoring and Tutoring Experience*
- *Critical and Analytical Thinking*

### Business Skills:

- *Basic Project Management*
- *Basic New Venture Planning*
- *Basic Commercial Law*
- *Basic Financial Management*

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## ACHIEVEMENTS

### Dean's Merit List: December, 2024

Issued by the dean of the UCT Faculty of Engineering and the Built Environment to students who obtain a GPA of above 70%.

### Dean's Merit List: December, 2023

Issued by the dean of the UCT Faculty of Engineering and the Built Environment to students who obtain a GPA of above 70%.

### Proxime Accesit Dux: September, 2021

Issued by Northwood School for being placed second in the grade with an average of 93% in my final year.

### First in Information Technology: September, 2021

Issued by Northwood School for achieving the highest grade in IT in my final year.

### First in Engineering, Graphics and Design: September, 2021

Issued by Northwood School for achieving the highest grade in EGD in my final year.

### Prefect: October, 2020

Issued by Northwood School after being interviewed, shortlisted (by senior school staff) and voted for by the students and staff.

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## PROJECTS

My project history goes as far back as matric in which we had to develop a basic log in/ sign up platform for an organization of our choosing. It was at that point that I discovered my love for the development side of my discipline. However, while at UCT I found my passion for some of the more hardware aspects concerning electronics. During the course of my degree I worked on projects ranging from a micro-mouse to the Front-End/GUI for a remote penguin pulse oximeter. These can all be seen on my electronic portfolio:

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