

Boikanyo Ntsimane

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Objective

Final-year Mechatronics Engineering student at the University of Cape Town with a passion for leadership, innovation, and solving real-world problems. Experienced in managing technical projects, leading student initiatives, and driving personal growth. Skilled at applying analytical and communication skills to tackle complex, high-impact challenges at the intersection of business and technology.

Education

University of Cape Town

BSc Eng (Mechatronics)

2022–Present

Roedean School (SA)

High School (86% aggregate)

2017–2021

Experience

Yaskawa Southern Africa

Vacation Work

Nov 2023 – Jan 2024, Dec 2024

Assisted with robotics programming, installation, wiring, and maintenance.

GPS Architects

Vacation Work

Jan 2023

Gained hands-on experience in electrical installations, wiring, and reading electrical drawings for a military kitchen construction project.

Additional Training

Leeds International Summer School, University of Leeds, UK

Management in Organizations: Theories, Techniques and Decision Making

July 2023

Yaskawa Southern Africa

Robotics Basic and Advanced Training

2023–2024

Leadership

Engineers for the Future Society (UCT)

Founder and Chairperson

Sep 2023 – Dec 2024

Organized in-person and virtual events for a community of 200+ engineering students.

Collaborated with EBE Student Council.

Roedean School (SA)

Deputy Head Student and SRC President

Jan – Nov 2021

Skills & Projects

Technical & Engineering:

MATLAB, Simulink, SolidWorks, Java, Robotics. Developed an ESP32-controlled electromechanical deterrent system (2025). Developed a Java-based academic portal allowing students to access results and submit queries, integrating basic database functionality. (2021)

Analytical & Strategic Thinking:

Placed top 5 in BCG x UCT case competition. UCT Investing Society Trading Club member (JSE). Completed coursework in Control Systems, Engineering Design and Commercial Law.

Communication & Presentation:

Hosts a podcast interviewing African entrepreneurs. Developed strong communication and storytelling skills through content and event leadership.

References

Devon Prinsloo: Yaskawa Southern Africa, National Project Manager — devon.prinsloo@yaskawa-sa.co.za

Zahraa Essa: Engineers for the Future, Founder — essazahraa@gmail.com