

Curriculum Vitae

of

Richard Mabvirakare

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2094

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Profile

I am a flexible, creative problem-solver currently pursuing a BSc(Eng) in Electrical Engineering at the University of Cape Town, with a strong focus on control systems, project management, and practical engineering applications. I am passionate about using my technical skills to address real-world challenges and make an impactful difference. With hands-on experience in project coordination and engineering workshops, I am eager to apply my knowledge in dynamic, solution-oriented environments.

Personal Details

Surname	: Mabvirakare
First Names	: Richard Boitumelo
Date of Birth	: 22/08/2002
Identity Number	: 0208225186088
Gender	: Male
Marital Status	: Single
Nationality	: South African
Home Language	: English
Other Languages	: Sesotho
Health Status	: Excellent
Driver's license	: None

Criminal Record : None

Academic History

Secondary Education

January 2016 – December 2020

Name of School	: Queens High School
Qualification	: National Senior Certificate
Grade Passed	: Grade 12
Year	: 2020
Subjects	: English Home Language (62) Afrikaans First Additional Language (53) Mathematics (84) Life Orientation (69) Accounting (87) Life Sciences (78) Physical Sciences (85)

Tertiary Education

March 2021 - Present

Name of Institution	: University of Cape Town
Degree	: BSc(Eng) in Electrical Engineering

Work Experience

► Kudon Engineering Services

Vocational Intern

25 November 2024 – 6 January 2025

- Conducted requirements analysis and user interface design for mobile application development
- Developed full-stack mobile software application for automating vehicle inspection processes
- Implemented backend development, testing, and deployment of business automation solutions
- Gained practical experience in software development lifecycle from concept to deployment
- Delivered high-quality solution that significantly improved vehicle inspection workflow efficiency
- Demonstrated technical proficiency in problem-solving and full-stack development
- **Demo:** <https://www.youtube.com/watch?v=UQKRiSOfoWg>

► Kudon Engineering Services

Vocational Intern

10 June 2024 – 12 July 2024

- Gained hands-on experience in electrical maintenance and technical report writing.
- Worked on fuel oil burner maintenance for a coal power station.
- Developed foundational skills in project management, gaining insight into the coordination and execution of engineering projects.
- Assisted in organizing the CV database for contract purposes.
- Participated in app development to streamline vehicle inspection processes.
- Observed and supported control panel design for water pump systems

► CPUT Practical Training Workshop

Practical Training

16 - 29 November 2022

Workshop

- Participated in an intensive vac work training workshop aimed at hands-on skills development for undergraduate Electrical and Mechanical Engineering students.
- Engaged in daily workshops from 08h00 to 17h00, focusing on practical applications of engineering concepts.

Skills

- Microsoft Office: (Proficient in)
 - Word
 - Excel
 - PowerPoint
- Programming: (Proficient in)
 - Python
 - Dart
 - Java
 - HTML

- JavaScript - CSS
 - MATLAB
 - SIMULINK
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Hobbies & Interests

- **Coding:** Applying my programming skills to create and develop interesting projects
 - **Drawing:** physical and digital art
 - **Chess**
 - **Electronic hobbyist:** Building Arduino and general circuit projects
 - **Reading:** Books on Entrepreneurship, and Self-help
 - **Music:** Playing Guitar
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References

- **Norman Kativhu**
Engineering Manager, Kudon Engineering Services
Email: norman@kudon.co.za
Phone: +27 13 170 5770
- **Dominic De Maar**
Coordinator, CPUT Practical Training Workshop
Email: dominic.demaar@uct.ac.za