

KAGONTLE BOOYSEN

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SUMMARY

Mechanical engineer with four years of experience who is committed and passionate. I can work alone under pressure and in a team environment, and I am constantly eager to learn new abilities. I appreciate finding creative solutions to challenging issues and am proactive and curious. Furthermore, I am in the process of earning a BSc (Hons) in software engineering.

EDUCATIONAL BACKGROUND

African Leadership University – Kigali, Rwanda

January 2022 – May 2025

BSc (Hons). Software engineering

Relevant Coursework: Navigating ambiguity, Process Thinking, Teaching Forward, Sourcing Discerningly, Self Assessment, Articulating Purpose, Curiosity, Learning Goals, Articulating Process, Reflective Practice, Motivation, Procrastination.

Relevant coursework: Shell, Navigation, Emacs, Vi Editor, GitHub, Shell, Init Files, Variables and Expansions, Shell, I/O Redirections and Filters, Shell Permissions, Shell Basics, Shell, Loop, Conditions and Parsing, Shell, Processes and Signals, Python-"Hello-World" and If/else loops, functions.

PROFESSIONAL WORK EXPERIENCE

Mechanical Engineer(Junior)

January 2021 – Present

Mpact Springs Mill – Johannesburg, South Africa

- Designed a line shaft connected to a motor which can produce about 50 kW while rotating at 2500 revolutions per minute (RPM). It has increased our productivity from 114 tons to 204 tons of board per hour.
- Diagnosed and dismantled a gearbox and successfully replaced old components with new components, the gearbox is working at 100% capacity.
- Overhauled pumps.

Tutor

April 2017 – November 2020

Festicol FET College – Johannesburg, South Africa

- Tailored sessions, teaching techniques and materials to individual learners.
- Prepared lessons, assign and corrected homework assignments and evaluated students' progress and discuss the results with students.
- Facilitated study methods for self-assessment.
- Created office hours with students individually to discuss progress.

Immigration and visa advisor

April 2022-Present

African Leadership University- Kigali, Rwanda

- Assigned to ensure the students avoid any legal issues about their relocation by assisting them in obtaining visas and other related immigration documentation.

EXTRACURRICULAR ACTIVITIES

Youth Leader, African National Congress

March 2020 – Present

Support youth and organise regular social, educational and spiritual-oriented events to fight unemployment in our communities.

Student Activist, Congress of South African Students(Cosas) **September 2016 – December 2018**

Advocated for students' rights and well-being in their learning journey to avoid a non-racial democratic education system.

SKILLS

- | | | |
|-------------------------|---------------------------------|-------------------------------|
| • Communication- Expert | • Machine Operation-Beginner | • Engineering Drawing-Expert |
| • Leadership - Expert | • Computer programming-Beginner | • AutoCAD-Expert |
| • Teamwork - Expert | • Data Analysis-Beginner | • Project Management-Moderate |

INTERESTS

- | | | |
|----------------|------------------------------|------------------|
| • Job creation | • Entrepreneurial Leadership | • Climate change |
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LANGUAGES

- | | | |
|---------------------|----------------------|-------------------|
| • Setswana – Native | • Kiswahili-Beginner | • Isizulu-Expert |
| • English – Expert | • Afrikaans-Expert | • French-Beginner |