

# Wisdom Marimbi

Aerospace Engineer

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## Qualification profile

Dynamic, forward looking team player with a sound understanding in mechanical and aerospace engineering. Excellent working knowledge in Aerodynamics, Propulsion CAD drafting and CFD Analysis, including ability to interpret and analyze data to develop and design models. Inspiring team leader with the ability to think laterally to provide solutions, exercising independent judgment and decision making in the diagnosis and resolution of problems.

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## Objective

Seeking a full-time entry-level aerospace engineering position.

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## Education

**Bachelors of Technology, Aerospace Engineering**

Sandip University, Nashik, Maharashtra, India

**May 2024**

GPA: 8.5/ 10

**Advanced Level, Pure mathematics, Physics and Chemistry**

Nyamuzuwe, High School, Mutoko, Zimbabwe

**May 2024**

Points: 13/ 15

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## Project Experience

**Senior Preliminary Design Project – design and development Police Drone:** Member of 4-person team

Created a plan with team for developing a police vigilance drone, armed and equipped with functions that can make policing easier and safer. The drone was designed in AutoCAD, and we developed timeline for tasks, analysis was carried out using ANSYS. The designed drone was fully functional as expected

**CATIA Project – Model: Single Cylinder Engine:** I individually completed a CATIA project where I had to construct a single cylinder engine modeled using Part, Assembly, Generative Shape, and Parametric Design Workbenches. Used Drafting and Real Time Rendering Workbenches to dimension and embellish.

**Turbine and Rocket Engines Project – Axial Compressor Stage Design Project:** Individual assignment Developed axial compressor stage given design specifications, used engineering method, problem-solving skills and iteration to develop project design.

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## Experience

**Omspace Pvt Ltd**

Rocket Design Engineering Internship

Ahmedabad, India

February 2024- June 2024

- Collaborating with senior engineers to develop design specifications for rocket engine components.
- Utilizing CAD software to create detailed models and simulations of engine parts.
- Conducting research and analysis to optimize engine performance and efficiency.
- Participating in testing and validation processes to ensure the reliability and safety of the engine designs.

**Winnings College of Aviation Technology**

Aircraft Engineer, Intern

Pune, India

March 2022- October 2022

- Aircraft Electrical Systems: Assisted in the design, testing, and troubleshooting of aircraft electrical systems, ensuring reliability and safety.
- Anti Collision Systems: Conducted research and development on aircraft anti-collision systems, focusing on enhancing detection and prevention technologies.
- Aircraft Control Systems: Worked on the development and optimization of aircraft control systems, including flight control mechanisms and stability augmentation.

- Aircraft Communication Systems: Assisted in the evaluation and improvement of aircraft communication systems, ensuring effective and secure communication channels.
- Aircraft Propulsion Systems: Gained hands on experience with the design and analysis of aircraft propulsion systems, focusing on performance and efficiency improvements

#### **Aerolus AeroTech Pvt Ltd**

#### **Aerospace Engineer, Intern**

Bengaluru, India

July 2021- November 2021

- Performing research and analysis for various projects, data extrapolation, aerodynamics, CFD analysis and CAD drawings.
- Conducted Research and Development: Assisted in the design and development of mechanical and industrial systems, focusing on enhancing efficiency and performance.
- Technical Analysis: performed detailed analysis of mechanical components and systems including stress analysis and thermal performance evaluations.
- Aircraft Propulsion Systems: Gained hands on experience with the design and analysis of aircraft propulsion systems, focusing on performance and efficiency improvements
- CAD: used CAD software to create and modify detailed 3D models of components and assemblies.
- Team collaboration: worked closely with senior engineers and technicians to troubleshoot and resolve technical issues.
- Learning and Development: Gained hands on experience in mechanical and aerospace engineering enhancing my practical knowledge skills.

### **Skills and Involvement**

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|------------------------------|--|
| <i>Engineering Software:</i> | ANSYS, CATIA v.5, MATLAB, Programming in C, Simulink, AutoCAD 3D, SolidWorks |
| <i>Office Software:</i>      | Microsoft Word, Excel, PowerPoint, Publisher, Access, Teams, Database        |
| <i>Technical:</i>            | Drafting, 3-D printing, CFD analysis, Stress Analysis, Thermal analysis.     |
| <i>Languages:</i>            | English (fluent), French (basic)   |

#### **President of the School Executive Committee (2017-2019)**

- Planned and managed the school church and scripture union services
- Planned and oversaw all fun raisings
- Student Affair representative
- Monitored the running and efficiency of events

#### **Entertainment Committee President (2017-2019)**

- Ran the entertainment committee of Nyamuzuwe High School
- Planned and coordinated all entertainment events carried out at the school during the mentioned period
- Maintained student discipline during these events with assistance from my committee members

I was also part of the Prefect Student Leadership board in charge of student hostel logistics

### **Honors and Awards**

Zonal Chess competition awards (2017) -I was part of the chess team which won the zonal chess competitions

Provincial Chess competition awards (2017)-Part of the champions of provincial chess competition

Overall Best student of the year (2015)- I was the best student in my stream in the year 2015