

# Simbiso Makunde

## Professional Summary

Recent Aeronautical Engineering graduate seeking an internship or entry-level position in Condition Monitoring & Fault Diagnosis ,Control Systems or Data Analytics. Academic studies have provided foundation in numerical analysis, control systems designing & testing , condition monitoring and fault diagnosis as well as electrical and electronic techniques . Proffessional certifications have provided proficiency in data mining ,data processing algorithms, data visualisation , as well as predictive modelling .

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## EDUCATION

### BSc Aeronautical Engineering , Nanjing University of Aeronautics & Astronautics

09/2017 - 06/2021

3.6 GPA

#### *Thesis Project:*

- Data Science project  
Research on Civil Aircraft  
Fault Diagnosis , Prognosis  
Method and Application

## PERSONAL PROJECTS

### KPMG AU Virtual Internship Program Participant (07/2022)

- Participated in the open access KPMG Australia Virtual Experience Program with Forage.
- Tasks completed include:
  - a) Preliminary data exploration for the client's datasets' quality and completeness before analysis.
  - b) Preparing a detailed approach for data analysis to reveal high value customers from demographics and attributes.
  - c) Data Analysis and visualisation via interactive dashboards with Tableau to present insights/ key findings .

### Aircraft Pneumatic System Fault data Classification Project (06/2021)

- Designed a prediction algorithm (Back-propagation neural network ) for data analysis and fault classification .
- Successfully carried out fault diagnosis and health prognosis on an Airbus A320 's pneumatic system.

## CERTIFICATIONS

### IBM Data Analyst by IBM Skills Network on Coursera

02/2023

#### *Achievements/Tasks*

- Worked with a variety of data sources, and data analysis tools: Excel, SQL, Python, Jupyter Notebooks, and Cognos Analytics
- Analyzing datasets, creating visualizations & interactive dashboards, and presenting reports to share findings of data analysis,

## TECHNICAL / PERSONAL SKILLS

IBM Cognos Analytics

Python , MATLAB

AutoCAD

CATIA 3D Design

Data Science Research Methods

Trend and Pattern Recognition

KPI Data Visualisation

Technical Documentation

Risk Assessment

Critical Thinking

Teamwork and Collaboration

Decision-making

Creativity

Project Management

## LANGUAGES

English , Shona

*Full Professional Proficiency*

Mandarin Chinese , French

*Limited Working Proficiency*

## INTERESTS

Machine Learning and Market-Related Analytics

Control Systems Engineering

Airlines and Aviation

Aircraft Systems Health Prognosis and Diagnosis  
Algorithms