

Kelvin Kibet Koech

Aspiring Aeronautical Engineer

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Nairobi, Kenya

SUMMARY

I am an aspiring aeronautical engineer, a graduate from the Technical University of Kenya with a Bachelor's degree in Aeronautical engineering. I am passionate about aviation industry especially aircraft maintenance and engineering, and keen to learn and strengthen my skills. The training at the University and internship role at Airworks has given me a strong foundation in air transport operations, aircraft maintenance practices, aviation safety and legislation. I am seeking to leverage my academic background, skills and experience to contribute to continued airworthiness of civil aircrafts.

WORK EXPERIENCE

Airworks Kenya Limited

Maintenance planning and technical records intern

12/2024 - present

- Updating aircrafts' flight hours and cycles for scheduling maintenance.
- Components tracking and updating for scheduled maintenance.
- Maintenance forecasting and scheduling in conjunction with maintenance department.
- Evaluating ADs and SBs applicability to Airworks' fleet as issued by OEMs to ensure compliance for continued airworthiness.
- Work order number control.
- Generating work packages by incorporating worksheets and other working documents to ensure completeness of maintenance instructions.
- Issuing, closing and filing of all aircraft's maintenance work carried out by AMO.
- Completing aircrafts, engines, and propellers log entries after every maintenance and updating logbooks to ensure traceability of maintenance activity during the lifetime of the component.
- Preparing certificate of release to service after scheduled maintenance check.
- Aircraft utilization capturing through technical log filing.
- Quality control on completed work package to ensure every task is correctly certified before archiving.
- Attended maintenance planning meetings.
- Records and archive access control.

Aircraft Maintenance Technician Intern

02/2024 - Present

- Scheduled and unscheduled inspection on Cessna Caravan C208B and DHC 8-202.
- Systems and components troubleshooting and defect rectification.
- PT6A-114A engine inspection and servicing.
- Maintenance manuals interpretation.
- Documentation of maintenance checks and rectifications done on the aircraft.

EDUCATION

The Technical University of Kenya

09/2018 – 11/2024

Bachelor of Engineering (Aeronautical Engineering)

First Class Honors

Research Projects:

1. Modeling and Performance Analysis of Micro Gas Turbine Engine Integrated with Inverted Brayton Cycle for UAV Propulsion.
2. Structural and Aerodynamic Analysis of Piston Core-Turbine Interaction in a Composite Cycle Engine.

Chebilat Polytechnic

Computer applications

05/2018 – 08/2018

Chebilat Boys' High School

KCSE: A-

02/2014 - 11/2017

CERTIFICATES

Introduction to Data Analytics

IBM through Coursera

10/2023 – 02/2024

Supervised Machine Learning: Regression and Classification

DeepLearning.AI and Stanford Online through Coursera

10/2023 - 11/2023

Excel Basics for Data Analytics

IBM through Coursera

01/2024 – 04/2024

RESEARCH PROJECTS

1. Structural and Aerodynamic Analysis of Piston Core-Turbine Interaction in a Composite Cycle Engine.

- Gas turbine engine modeling and simulation using GASTURB
- Computational fluid dynamics using ANSYS
- Fluid-structure interaction
- Research
- Time management

2. Modeling and Performance Analysis of Micro Gas Turbine Engine Integrated with Inverted Brayton Cycle for UAV Propulsion.

- UAV propulsion effects
- Team work
- Gas turbine engine performance modeling
- Time management
- Research
- Interpersonal skills

SKILLS

- Time management
- Research
- Team work
- Computer applications
- Troubleshooting
- Aircraft maintenance and repair
- Maintenance planning
- Technical records
- Quality control
- Good communication and interpersonal skills
- Computer Aided Design using SolidWorks
- ANSYS workbench
- Gas Turbine engine performance modeling and simulation using GASTURB and GSP
- Technical report writing

LANGUAGES

Kiswahili

English

REFERENCES

1. Simon Munguu
Propulsion Engineer
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2. Mr. Gedion Kilonzo
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