

JOHN NJUGUNA

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INDIVIDUAL SUMMARY

Highly ambitious, motivated, and meticulous university graduate who relies on his creative abilities to solve tasks assigned. Technically savvy with outstanding aircraft engineering skills. Energetic self-starter and team builder able to navigate high stress situations and achieve goals.

PROFESSIONAL WORK HISTORY

Current

Design and quality assurance

Regulus ventures limited

- Currently working on the research, design and development of an electric motorcycle. I actively assist Regulus ventures limited formulate quality standards and regulations for both the employees and product produced. In addition, I am accountable for identifying shortcomings and develop strategies to improve the production process.

July 2021 – December 2021

Trainee

Sky max Aviation Limited

Malindi international airport, Kenya

- Participated in the execution of day to day planned and unplanned aircraft line maintenance on Cessna 150, Cessna 172, Cessna 206, Piper PA – 34 Seneca, Dornier 228, Embraer 120, and Beechcraft 1900D.

November 2019 – February 2020

Intern

Air traffic limited

Wilson airport, Lengai house, Nairobi, Kenya

- Performed aircraft related line maintenance tooling, stands and ground equipment.
- Reading and interpreting maintenance manuals, service bulletins and other specifications to ensure the proper methods of repairing or replacing malfunctioning or damaged components are adhered to.
- Under supervision, inspect and examine components including landing gear, hydraulic systems, fuselage and wings for corrosion, wear, and other defects.

PROFESSIONAL CERTIFICATIONS

- **FAA Aircraft Maintenance Documentation for AMTs (9/12/2021):** This course provided a review of aircraft maintenance documentation requirements. It emphasized the importance of proper documentation. It identified common documentation problems that can lead to maintenance errors or FAA enforcement actions.
- **FAA Maintenance Error Avoidance core course (9/12/2021):** This course provided a description and review of the most common causes of human error in aviation maintenance and offered mitigation strategies that an aviation maintenance technician (AMT) can use to reduce maintenance errors.
- **FAA Human Factors Primer for Aviation Mechanics (14/11/2021):** The course provided each participant with maintenance human factors information in accordance with viewpoints expressed in the FAA Maintenance General Handbook (FAA-H-8083-30) Chapter 14, Human Factors.
- **MATLAB online course certificate (18/02/2019):** To keep my skills sharp, I auspiciously took part and completed the MATLAB onramp self-paced training course.
- **Engineering showcase certificate of attendance (4/04/2019):** Exhibited my presentation skills by creating a poster of my final year project and conferred my research and findings to potential employers as part of the engineering showcase event held at the University of South Wales annually.
- **Egnatia aviation (9/09/2018):** Successfully completed a 90 min flight test exercise which assessed the performance and the dynamic modes of the aircraft, together with stall and 2g turn demonstrations. The test flight was carried out in a diamond DA4 ONG aircraft at Kavala International airport, Greece.

EDUCATION

2019

Bachelor of engineering (Hons): Aeronautical

University of South Wales | Pontypridd

Award achieved: First class honors

Accredited by: Institution of mechanical engineers, Royal aeronautical society, and Engineering council accredited degree.

Final year project (2018 - 2019): Experimental investigation on the effect of protuberances on the trailing edge of an airfoil.

Designed novel airfoil sections on Solid works CAD, manufactured the models via 3D printing and examined their aerodynamic performance in a wind tunnel.

Mark awarded: 77/100

Aeronautical design (2017 -2018): Worked closely as part of a team and propitiously researched, designed (using CAD Solid works software) and built an electric powered, remote controlled aircraft to transport tennis balls around a pre-determined 750m flight path.

Mark awarded: 71/100

Design and manufacture (2016 - 2017): Innovated a "one pound" design of a prototype moon rover with a rubber band as its power source.

Mark awarded: 68/100

2015

Secondary Education Exam

(K.C.S.E) St. Elizabeth Academy |

Nairobi Kenya **Mean grade:** B

- Top of class.

2009

Primary Education Exam

(K.C.P.E) Gilgil Hills Academy |

Gilgil Kenya Overall mark:

399/50

SKILLS

- **Engineering software:** Proficient in Solid works CAD, ANSYS Computational fluid dynamics, ANSYS Finite element analysis and MATLAB.
- **Team player:** Genuinely committed to tasks assigned in group settings. Evident in numerous group assignments tackled throughout my university course and previous work experience.
- **Workshop and safety skills:** Excellent shop and safety skills honed from various completed assignments throughout my four-year course and internship.
- **Fast learner:** The ability to grasp new

concepts quickly and efficiently has proved essential in both my education and work experience. I learn and adapt to new environments seamlessly.

- **Motivated:** Committed to achieve set goals and reveal my potential. This trait ensures I remain focused on set tasks and maintain steady progress and growth in my field.
- **Communication skills:** Experience working in a multi-cultural and multi ethical environment in the hospitality industry.

NON-PROFESSIONAL WORK HISTORY

Oct 2018 – July 2019
Waiting and floor staff
Syft recruitment agency -
Cardiff, Glamorgan

- Worked efficiently as part of a team to maintain table settings by removing courses, replacing utensils and refilling beverages promptly and courteously.
- Enhanced and demonstrated outstanding communication skills through genuine hospitality while greeting and establishing rapport with guests.

Sep 2017 - Jul 2018
Warehouse operative
Thomas recruitment agency -
Pontypridd, Mid Glamorgan

- Sharpened my organizational skills by picking up incoming stock and delivered materials to designated locations.
- Showcased and applied my technical abilities when operating PC and RF-based computer systems with a high level of accuracy.

Sep 2016 - Sep 2017
Food production operative
RF Brookes - Newport, Gwent

- Paid close attention to detail to assure high quality standards of the finished product, for example, the size, weight and final product outlook.
- Honed essential teamwork and communication skills necessary to ensure the required exemplary standards of food production were upheld.

HOBBIES

Football: Keeping fit and mentally stimulated.

- Team player of the Embakasi All Star football team (2013 - Current).
- Actively participated in the intra mural football tournaments organized by the university of South Wales (2016 - 2019)

Art: As a creative outlet I enjoy creating visual drawings and sketches that bring to life my imaginative and conceptual ideas.

