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## RONNIE MUTULILI

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### Professional Summary

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An academically astute aerospace engineer currently pursuing an MSc in Advanced Manufacturing and Automation Engineering from Dedan Kimathi University of Technology, Nyeri. I have over two years of practical experience working in multi-cultural and international environments in Europe and Africa. I have excellent problem-solving skills and proven ability to develop new concepts and techniques to improve design which I acquired through my degree as well as relevant work experience. I have in-depth knowledge of systems engineering and design along with project-based practical knowledge on product development process. I hold a BEng degree in Aerospace Engineering in Systems Engineering (2:1) and previously achieved a Level 3 Diploma in Aircraft Maintenance (Distinction), which covered a wide range of associated disciplines in Civil Aircraft Electrical and Electronics engineering principles.

### Relevant Professional Experience

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#### **July 2016 – Aug 2016 Project Manager, La Femme Engineering Services, Nairobi**

- Led and coordinated a team of 25 employees working on refurbishment of a in a high-risk area in conjunction with the lead contractor KPC.
- Ensured all safety protocols and risk compliance was adhered to intermediary between the contractor and La Femme Engineering Services.
- Provided regular status updates, tracking and written reports of the project scope and progress for its entire duration.
- Skills gained: Leadership, management, written communication, problem solving, interpersonal skills.

#### **May 2016 – July 2016 Telecommunications Engineering Intern, Huawei Technologies, Nairobi**

- Part of a team tasked with installation and configuration of optical transmission platforms, cable management and directivity in Dense Wavelength Division Multiplexing (DWDM).
- Installed and maintained routers and switches in Nairobi using Internet Protocol Radio Access Network (IP RAN).
- Skills gained: Teamwork, time management, problem solving, communication.

#### **Jan 2015 – May 2016 IT Support Technician, La Femme Engineering Services, Nairobi**

- Part of a team in charge of maintenance, diagnosis, and repair of reported faults in equipment including printers and scanners. Helped in critical upgrade of company IT software and hardware.
- Initiated and implemented the deployment of the working practice to include IT in the field improved productivity of the company and saved time and over KSH 100,000 in annual costs.
- Skills gained: Data entry, scheduling, debugging, web management, cloud management.

#### **Sept 2013 – Dec 2013 Aeronautical Engineering, Attachment, BenAir Engineering, Moi Int. Airport, Mombasa**

- Worked in a Part 145 MRO Organization performing general aircraft maintenance in avionics on the L410 UVP-E9/20; Cessna Caravan C208B & DC3/C47-65 ARTP planes.
- Developed an aptitude for aircraft safety and workshop procedures while working on the aircrafts.
- Skills gained: Health and safety, time management, leadership, teamwork.

#### **June 2012 – Sep 2012 Aeronautical Engineering Attachment, Kenya Civil Aviation Authority, Eldoret Airport**

- Maintained KCAA facilities and equipment including Instrument Landing System, VHF Directional Finder, Distance Measuring Equipment, Doppler VHF Omni-Range Equipment, Information and Communication Technology, Radar, Aircraft Integrated Data System, VHF Radios, Very Small Aperture Terminal (VSAT).
- Skills gained: Time management, teamwork, troubleshooting, testing.

### Other Employment

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#### **July 2018 – Oct 2018 Stock Taker, Orridge, Bristol**

- Collected, compiled, and compared electronic data of company records.

#### **June 2017 – Sep 2017 Customer Service Assistant, Swissport International, Bristol Airport**

- Managing customer and client relations while meeting daily targets including checking passports, visas, and other relevant documentation for travel and adhering to all health, safety, and security regulations in the airport environment.
- Skills gained: Customer relations, product knowledge, cashier skills.

**Jan 2017 – April 2020    Personal Tutor, Tutorful, Bristol**

- Coordinating and training students in GCSE, A-Levels, IB and undergraduate levels in STEM subjects.

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**Education**

**Jan 2021 – Present    MSc. Advanced Manufacturing and Automation Engineering, Dedan Kimathi University of Technology (DeKUT)**

**Oct 2020 – Dec 2020    Siemens Mechatronic System Certification Program (SMSPC), Dedan Kimathi University of Technology (DeKUT)**

- **Awarded:** Mechatronic System Assistant Certificate.
- Electrical Components, Mechanical Components and Electrical Drives, (Electro) Pneumatic and Hydraulic Control Circuits, Digital Fundamentals and Programmable Logic Controllers.

**Sept 2016 – Aug 2020    BEng (Hons) Aerospace Engineering and Pilot Studies and Systems Engineering, University of the West of England (UWE)**

- **Awarded:** 2:1
- **Final year dissertation:** Detection of Component Degradation on Helicopter Epicyclic Secondary Planet Gears. The research focused on the Tunneling Magnetoresistance (TMR) technology to detect the change in magnetic flux density with simulated crack propagation in a secondary epicyclic planet gear. This would provide the maintenance crew real-time gear health monitoring and detection of degradation in the MGB.

**Sept 2015 – June 2016    City and Guild Diploma in Aircraft Maintenance, Skypath Aviation College**

- **Awarded:** Distinction
- Level 3 Diploma in Aircraft Maintenance (Civil Aircraft Electrical and Electronics).

**Sept 2010 – Nov 2014    Diploma Aeronautical Engineering, Avionics, East African School of Aviation**

- Diploma in Aeronautical Engineering in Avionics.
- **Trade Project:** Free Space Optical Communication using light propagation to wirelessly transmit data.

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**Professional Membership**

- **East African Society UWE**, Founder and President: provided a platform for young professionals to gain opportunities, employment and to network. 2017-2018.
- **Aero Society UWE**, Member: designing and building drones, competing in the IMechE inter-university competitions, 2016-2020.
- **Institution of Engineering and Technology (IET)**, Student Member, 2016 – present.
- **Royal Aeronautical Society (RAeS)**, Student Affiliate, 2016 – present.
- **Institution of Mechanical Engineers (IMechE)**, Student member, 2016 – present.
- **Institute of Engineers of Kenya (IEK)**, Member, 2011 – present.

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**Certificates and Achievements**

- **Siemens Mechatronic Systems Certification Program** – Mechatronic System Assistant, 2020.
- **Winner: The Teamwork Award at the Student Experience Awards**, Students Union UWE 2018.
- **Certificate in Workplace Mentoring** – Faculty of Business and Law, UWE 2018. No expiration date.
- **Elected Lead Department Representative** for the Department of Engineering, Design and Mathematics, 2017.
- **APM Project Fundamentals** certificate 2017. No expiration date.
- **AutoCAD** certificate – Autodesk, 2016. No expiration date.
- **Health & Safety** certificate – Huawei Technologies Ltd, 2016. No expiration date.

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**Languages**

- Swahili
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