

# CHRISBENSON MWEMA WACHIRA

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## PERSONAL PROFILE

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Biomedical Engineer with 10+ years of experience in maintaining and improving medical equipment. Skilled in installing, validating, and repairing advanced biomedical systems, including x-ray and laboratory machines. Proven track record in providing technical support and training, ensuring optimal equipment performance. Seeking to leverage expertise to enhance patient care and medical technology.

## KEY SKILLS

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- **Biometric Engineering:** Experienced in applying engineering principles to the development and maintenance of medical equipment and devices.
- **Maintenance and Repair:** Proficient in preventive maintenance, troubleshooting, and repairing biomedical equipment to ensure optimal functionality.
- **Technical Support:** Skilled in providing technical assistance and training to clients and healthcare professionals on the usage and maintenance of medical devices.
- **Project Management:** Able to lead and manage projects, ensuring timely installation and validation of new equipment while adhering to specifications and standards.
- **Quality Assurance:** Expertise in conducting inspections, performance evaluations, and quality checks to maintain high standards of equipment performance and safety.
- **Customer Service:** Strong ability to engage with clients, understand their needs, and provide effective solutions to technical issues, enhancing customer satisfaction.
- **ICT Competence:** Proficient in using MS Office applications (Word, Excel, PowerPoint, Publisher) and specialized software for technical documentation and data analysis.

## PROFESSIONAL EXPERIENCE

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### SURGIPATH SERVICES ULTRA LAB E.A LTD RENAISSANCE HEALTHCARE 2017-present

- **Installation and validation of new equipment.**
  - Installation and Validation: Successfully led the installation and validation of new medical equipment, ensuring compliance with all specifications and standards.
  - Customer Support: Provided comprehensive technical support and training to clients, enhancing their ability to utilize new equipment effectively.
  - Preventive Maintenance: Implemented preventive maintenance schedules, significantly reducing equipment downtime and extending its operational lifespan.
  - Technical Troubleshooting: Efficiently resolved complex technical issues, minimizing disruptions in medical services and ensuring continuous operation.
  - Project Management: Managed multiple installation projects, coordinating teams and resources to achieve timely and successful project completion.

### EMBU CHILDREN HOSPITAL 2015 - 2016

- **Service and repair of installed equipment.**
  - Repair and Service: Expertly handled the repair and maintenance of laboratory machines and X-ray equipment, ensuring their optimal performance.
  - System Design: Designed and installed critical electrical and plumbing systems, improving hospital infrastructure and safety.
  - Preventive Maintenance: Conducted regular preventive maintenance to prevent equipment failures and ensure continuous operation.
  - Workshop Management: Efficiently managed the hospital workshop, coordinating repairs and maintenance tasks to maintain high standards of service.
  - Technical Training: Provided technical training to hospital staff on equipment usage and basic troubleshooting techniques.

## KENYATTA NATIONAL HOSPITAL

Feb to May 2015

- **Field Attaché**
- Clinical Functions: Managed laboratory functions and assisted in operating theater procedures, ensuring smooth operations.
- Equipment Handling: Gained hands-on experience with critical care unit equipment, enhancing skills in handling emergencies.
- Preventive Maintenance: Assisted in the preventive maintenance of medical equipment, ensuring their reliable performance.
- Technical Support: Provided technical support across various hospital departments, improving overall operational efficiency.
- Skill Development: Developed expertise in accident and emergency management, medical gas systems, and electrography.

## EMBU PROVINCIAL GENERAL HOSPITAL

May to Sep-2014

- **Field Attaché**
- Executed the repair and service of laboratory machines, repair and service of the dental chair, x-ray machines, laundry machines, and autoclave and theatre equipment's.

## EDUCATION BACKGROUND

### THE UNIVERSITY OF KENYA

2022-2025

- **Bachelor of Technology in Electrical and Electronics Engineer Technology**
- Advanced Engineering: Studied advanced topics in electrical and electronics engineering, focusing on biomedical applications.
- Project Work: Completed several projects on biomedical equipment design and improvement, demonstrating innovative problem-solving skills.
- Research: Conducted research on cutting-edge solutions for medical equipment maintenance and enhancement.
- Technical Skills: Developed strong technical skills in diagnostics, repair, and preventive maintenance of medical devices.

### KENYA MEDICAL TRAINING COLLEGE

2012-2015

- **Diploma in Biomedical Engineering**
- Biomedical Focus: Gained in-depth knowledge of biomedical engineering principles and practices, with a focus on medical device technology.
- Hands-On Training: Participated in extensive hands-on training with medical equipment, enhancing practical skills and expertise.
- Field Work: Completed fieldwork in various hospitals, applying theoretical knowledge to real-world situations and improving patient care.
- Technical Expertise: Enhanced technical expertise in servicing and maintaining a wide range of medical devices, ensuring their optimal performance.

### KIRIMARA HIGH SCHOOL

2006-2009

- **Kenya Certificate of Secondary Education (KCSE)**
- Academic Excellence: Achieved high academic performance, laying a strong foundation for further studies in engineering and technology.
- Science Focus: Excelled in science subjects, particularly physics and mathematics, which provided the groundwork for a career in biomedical engineering.
- Extracurricular Activities: Participated in various extracurricular activities, developing leadership skills and a well-rounded character.

## PROFESSIONAL COURSES

- Training on DiaSorin LQS Basic Service: LQS Basic Service Field Service Engineering Training course; DiaSorin SPA; November 2023.
- Training on Qiagen QIAquant: QIAquant Field Service Engineering Training course; QIAGEN QIAquant; September 2023.
- Training on Qiagen QIAstart DX: QIAstart DX Field Service Engineering Training course; QIAGEN QIAstart DX; September 2023.

- Training on Qiagen QIAcuity: QIAcuity Field Service Engineering Training course; QIAGEN QIAcuity; September 2023.
- Training on Qiagen QIAxcel: QIAxcel Field Service Engineering Training course; QIAGEN QIAxcel connect; September 2023.
- Training on Qiagen ROTOR GENE FAMILY REAL TIME PCR: Rotor-Gene Field Service Engineering Training course; QIAGEN Rotor-Gene Family; June 2023.
- Training on Qiagen QIASymphony SP/AS : QIASymphony SP/AS Field Service Engineering Training course QIAGEN QIASymphony SP/AS; June 2023.
- Training on Qiagen EZ1 Extractor: EZ1 Field Service Engineering Training course QIAGEN EZ1; May 2023.
- Training on Qiagen EZ2 Connect Extractor: EZ2 connect Field Service Engineering Training course QIAGEN EZ2 Connect; May 2023.
- Training on Qiagen QIACube Extractor: QIACube Field Service Engineering Training course QIAGEN QIACube; May 2023 .
- Training on Abbott Hematology Cell- Dyn Ruby Field Service Engineering Training course; Abbott Cell-Dyn Ruby; July 2022.
- Training on Abbott Hematology Cell-Dyn Emerald Series Technical Service Training course; Abbott Cell-Dyn Ruby; June 2022.
- Training on Abbott Immunochemistry Alinity CI Series Service Training course; Abbott Alinity ci; June 2021.
- Training on Abbott immunoassay Architect i1000 Application, Operation, Troubleshooting; Abbott Architect i1000; March 2020.
- Training on Abbott clinical chemistry Architect c4000 & RSH Application, Operation, Troubleshooting- Abbott Architect C4000 &RSH; March 2020.
- Training on Abbott hematology Alinity HQ/HS Analyzer Service; Abbott Alinity HQ/HS Service; October 2019.
- Training on Pima CD4 analyser operation, Application and troubleshooting- Alere; June 2019.
- Training on Infant warmer, Infant incubator and Cardiotocography machine- ANK Medical Technology Co, Ltd; April 2019.
- Training on the safe use of hydrocarbons refrigerants- Refrigeration and Air Conditioning; July 2018.
- Training on Cypress Clinical chemistry CYAN Expert 130- Cypress Diagnostic Training; March 2018.
- Training on DiaSorin Immunoassay Liaison XL Service/ Operation Training- DiaSorin Diagnostic Specialist; July 2017.
- Training on Bosphore Real-Time PCR Kits, Magnesia Nucleic Acid Extraction kits, Magnesia 16 Automated Nucleic Acid Extraction instrument, Montania 4896 Real-Time PCR instruments Anatolia Geneworks; May 2017.
- Training on Cypress Hematology CYANHemato and Training on CYAN Smart- Cypress Diagnostic Training; May 2017.
- Diploma in Elisa Eti-Max 3000 Operator Training- DiaSorin Diagnostic Specialist; April 2017.
- Diploma in Elisa Eti-Max 3000 Basic Service Training- DiaSorin Diagnostic Specialist; March 2017.
- Diploma in Immunoassay Liaison Service/ Operation Training- DiaSorin Diagnostic Specialist; February 2017.
- Trained on Project management, Ethics in Health Care Practice, General Hospital Enterprise & Emerging ICT Trends in Health Care, Overview on Radiology Equipment, Health Care Information Exchange and Health Care Image Exchange- Radiology Equipment Training; November to December 2014.
- Certificate in Computer Packages- Patmos Computer College; 2010.

## PROFESSIONAL MEMBERSHIP

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- **Registered with AMEK- 2018**
  - Association of Medical Engineering of Kenya(AMEK)

## HOBBIES AND INTEREST

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- **Hobbies and Interest**
  - **Reading:** Staying updated with the latest advancements in biomedical engineering and healthcare technology.
  - **Traveling:** Exploring new places and cultures, gaining diverse perspectives and inspiration for innovative solutions.
  - **Volunteering:** Participating in community service projects and health camps, giving back to society.

- **Technology Enthusiast:** Experimenting with new gadgets and software to enhance technical skills and knowledge.
- **Fitness:** Engaging in regular physical activities like jogging and gym workouts to maintain a healthy lifestyle.

## REFEREES

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Mr. Robert Njako  
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