

Mohamed El-Sayed Heikal

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PROFILE

Biomedical Engineering and Biomedical Equipment Technician with hands-on experience in the lifecycle management of Operating Theatre (OT) instrumentation, including installation, testing, calibration, and corrective repairs. Proficient in ensuring compliance with Quality Assurance (QA) and safety regulations. Collaborates with surgical teams to optimize device performance and logs detailed service records in a CMMS to improve traceability. Combines applied maintenance experience with a strong academic foundation in embedded systems, biomedical instrumentation, and medical device standards.

WORK EXPERIENCE

Medical Equipment Maintenance Technician

Feb 2024 - Present

Operating Rooms, Mansoura University Hospitals:

- Manage the lifecycle of Operating Theatre (OT) instrumentation: installation, commissioning, testing, and corrective repairs.
- Perform preventive maintenance and calibration, testing equipment accuracy against standard values.
- Ensure equipment compliance with QA and safety regulations; log detailed service records in a CMMS to improve traceability.
- Collaborate with surgical teams to optimize device performance and minimize equipment downtime.

SKILLS

Technical & Maintenance

- Preventive Maintenance (PM): routine inspection and servicing of equipment
- Medical Device Calibration: testing accuracy against standard values
- Corrective Maintenance: repairing and restoring failed equipment to operation
- Installation & Commissioning: setting up and validating new hospital equipment
- Patient Monitoring: multi-parameter monitors (ECG, SpO2, NIBP)
- Endoscopy & Imaging: laparoscopic towers, C-Arms (mobile X-ray), and surgical cameras
- Basic circuit analysis and electronics

Software & Tools

- MATLAB / Simulink, Proteus Design Suite, Multisim
- TIA Portal (Siemens PLC Programming), C++ Programming
- Microsoft Office (Word, Excel, PowerPoint, etc.)

Soft Skills

- Strong communication and teamwork; fast learner; creative thinking and adaptability; high attention to detail; ability to work under pressure and meet deadlines; passionate about research and innovation

EDUCATION

B.Sc. in Biomedical Engineering Technology
Faculty of Applied Health Science Technology

2026
Menoufia University

Diploma, Medical Equipment Maintenance Technician
Health Technical Institute

2022
Mansoura

CONFERENCES & TRAINING

● 10th Biomedical Conference,Mansoura University	May 2026
● 9th Biomedical Conference,Mansoura University	May 2025
● Medical Design and PlanningWorkshop	Oct 2025
● X-Ray Basic TrainingWorkshop,MindrayCompany	Feb 2024
● Endoscope Workshop	Nov 2023

PROJECTS

Smart Incubator Monitoring System (SIMS) — Graduation Project

- Developed an IoT-based system using Arduino and ESP32-CAM to monitor vital environmental and safety parameters (temperature, humidity, air quality, and weight).
- Delivered real-time data visualization on a mobile app, live video streaming, and an automated multi-stage alarm system for emergency situations.

LANGUAGES

- Arabic
- English