

Ayoub AL-Salim

Medical Instrumentation Techniques Engineering

CONTACT

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📍 Iraq, Baghdad

PERSONAL DETAILS

- Date of Birth: - 2002/06/23
- Nationality:- Iraqi

SUMMARY

Biomedical Engineer with technical and administrative expertise, skilled in workflow organization, team coordination, and problem-solving. Proficient in handling technical systems and equipment, with a proven ability to learn quickly and adapt to diverse work environments. Passionate about developing skills and entering the IT fields, aiming to contribute to innovative solutions that support digital transformation

EDUCATION

(2021-2024) Bachelor's degree in Medical Instrumentation Techniques Engineering

LANGUAGES

- Arabic
- English

SKILLS

Technical Skills

- Computer maintenance (desktop & laptop): diagnostics, repairs, and component upgrades
- Spare parts management, inventory control, and precise replacement
- Comprehensive knowledge of computer hardware, operating systems, and supporting software
- Performance optimization and technical troubleshooting to ensure operational continuity
- Healthcare information technology (HIT) systems and device integration

Software & Programming

- MATLAB for data analysis and technical modeling
- Microsoft Office Suite (Excel, Word, PowerPoint, Outlook)
- Programming: Python, Ruby, C++
- Internet research and online communication proficiency

Administrative & Interpersonal Skills

- Task management and problem-solving under time constraints
- Customer relationship management (CRM)
- Strong communication skills with diverse age groups and cultural backgrounds

CERTIFICATES

- Marketing course (make successful marketing campaigns) at the station academy.
- Principles of endoscopy medical work.
- Medical Equipment Inspection and Calibration Workshop.
- Modern Applications in Ultrasound Devices Workshop.
- Operation and maintenance of the anaesthetic machine.
- Types of Laser Devices Used in The Medical Field.
- Nuclear medicine, radiotherapy and safety procedures
- Introduction to Healthcare Technology Management.
- The role of medical engineers in technology planning .
- Introduction to The Medical Bioinformatics.
- The Importance of Artificial Intelligence in Biomedical Engineering.
- Pathways in Big Data and Generative AI at Connect Agency Collaboration with AUIS.
- Protecting medical images using AI algorithms.

TRAINING COURSES

- Training at Fekrah Foundation in cooperation with the Ministry of Health Department of Medical Devices Management.
- Training in the Iraqi Engineers' Union
- Training in Al-Bahja Trading Company (Phillips Healthcare)
- Career Preparation Academy Bootcamp at IREX Collaboration with U.S. Embassy Baghdad.

• Experience

Medical Devices Engineer – United Medical Company (Unimedica), Iraq

Full-Time Service Engineer(internship) | July 2025 – September 2025

- Performed preventive and corrective maintenance, installation, calibration, and functional testing of various medical devices
- Delivered application support and device training to clinical staff, ensuring proper usage and safety compliance
- Conducted inspections and performance evaluations to maintain operational readiness
- Managed inventory of medical devices and spare parts, ensuring availability and traceability
- Maintained accurate service records and device documentation in line with regulatory standards

PROJECTS

1. Design and Implementation of a Transcranial Magnetic Stimulation (TMS) Device

- Developed a non-invasive TMS device for neural stimulation to treat neurological and psychiatric disorders.
- Focused on enhancing device performance, safety, and usability through innovative engineering solutions.
- Collaborated on hardware design, signal processing, and system testing to ensure compliance with medical standards.

2. Capsule Endoscopy System Design

- Engineered a compact, patient-friendly capsule endoscopy system for gastrointestinal diagnostics.
- Integrated advanced imaging technology and wireless data transmission for real-time monitoring.
- Contributed to system design, prototyping, and performance optimization to improve diagnostic accuracy.

3. Development of Medical Image Processing and AI Diagnosis System

- Designed an AI-powered system for automated medical image analysis and diagnostic support.
- Applied advanced image processing techniques and machine learning algorithms to enhance precision.
- Conducted model training, validation, and deployment, resulting in improved diagnostic efficiency and reliability.