



DEBOJYOTI SAHA

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PROFESSIONAL SUMMARY

Detail-oriented and proactive Senior Executive – Biomedical Engineer with hands-on experience in the installation, calibration, and maintenance of laboratory and diagnostic medical equipment. Skilled in troubleshooting and preventive maintenance of devices including binocular microscopes, centrifuges, incubators, spectrophotometers, anesthesia workstations, X-ray systems, USG, IVF, and dental equipment. Strong background in equipment performance verification, calibration documentation, and vendor coordination for AMC/CMC management. Committed to ensuring equipment uptime, patient safety, and compliance with NABH and ISO standards.

SKILLS

- Installation, calibration & preventive maintenance of lab & diagnostic equipment
- Servicing of microscopes, centrifuges, incubators, spectrophotometers & suction units
- Maintenance of anesthesia machines, X-ray, USG & IVF equipment
- Equipment calibration, NABL/ISO documentation & NABL/ISO documentation & electrical safety compliance
- Preventive/corrective maintenance, AMC/CMC coordination & vendor follow-up
- PCB inspection, optical alignment, wiring & spare parts replacement
- Knowledge of DICOM, LAN configuration & hospital IT integration
- Strong troubleshooting, analytical & communication skills
- Quick learner, field adaptable & focused on uptime and service quality
- Asset tracking, calibration records, and maintenance log preparation.

WORK EXPERIENCE

Senior Executive - Biomedical Engineer, A M Medical Centre (Formerly AMRI) Feb 2025 - Present

- Perform installation, calibration, and preventive maintenance of laboratory and diagnostic equipment.
- Service and troubleshoot binocular microscopes, centrifuges, incubators, and anesthesia workstations.
- Conduct maintenance of X-ray, USG, IVF, and dental equipment ensuring minimal downtime.
- Maintain calibration logs, service reports, and ensure compliance with NABH and ISO standards.
- Coordinate with OEM vendors for AMC/CMC, spare parts, and technical support.
- Assist in equipment commissioning, user training, and field documentation.

Industrial Training, Siemens Healthineers Dec 2023 - Jan 2023

- Hands-on experience with diagnostic imaging equipment at Siemens Healthineers.
- Developed skills in troubleshooting and maintaining medical devices.

Biomedical Engineer Trainee, Manipal Hospital Jun 2023- Jul 2023

- Gain hands-on experience in equipment maintenance, troubleshooting, quality assurance, data analysis, and documentation of service processes.

EDUCATION

B.Tech in Biomedical Engineering with Honours (7.34 CGPA) Jul 2021 - Jun 2025

Maulana Abul Kalam Azad University of Technology, West Bengal (Formerly WBUT)

ACADEMIC PROJECTS

IV Bag Monitoring System :

- Real-Time IV Fluid Monitoring System – Designed and implemented a smart IV fluid monitoring system using weight sensors and ESP32/Arduino for data processing and wireless alerts. Developed an automated low-fluid alert mechanism to enhance patient safety, ensuring a compact and user-friendly design suitable for hospital and home use.

CERTIFICATIONS

Introduction to Programming with MATLAB (Coursera, 2022) | Siemens Healthineers Training Certificate (Siemens, 2023) | MERN Stack (Udemy, 2024)