

TALHA KHAN

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SUMMARY

A Biomedical Engineering student with hands-on experience in medical equipment maintenance, calibration, and troubleshooting. Possesses problem-solving and analytical skills, along with effective communication and teamwork abilities. Demonstrates the ability to support the functionality and reliability of medical devices in clinical environments through internships and field exposure.

EXPERIENCE

◦ **ZEDCO**

Trainee Engineer

Mar 2025 - Present

- Daily interact with doctors and technicians on equipment status ensuring user satisfaction.
- Check equipment for accuracy and reliability, including calibration.
- Maintain equipment by completing preventive maintenance schedules, conducting test, troubleshooting and repair.
- Ensure that all equipment's meet safety quality standards.
- Coordinate with vendors to resolve technical issues and repair malfunctions.
- Work on: Cobas B 221 (blood gas and electrolyte analyzer), Cobas AVL 9181 (electrolyte analyzers), CD Ruby – 5 Diff (Hematology Analyzer)

◦ **Platinum Corporation**

Engineer Intern

Oct 2024 – Oct 2024

Internship

- Completed a two-day training on critical care unit (CCU) equipment, including infusion pumps, syringe pumps, defibrillators, ECG machines, patient monitors, ventilators, anesthesia machines, OT lights and tables, CT-scans, MRIs, and gamma probes.
- Gained hands-on experience with each device, focusing on operational functionalities and troubleshooting techniques.
- Participated in simulation exercises to practice using the ventilator and ECG machine in critical care scenarios.
- Represented Platinum Corporation at Health Asia 2024 by demonstrating the ventilator and ECG machine to attendees.
- Engaged with the audience during the demonstration, answering questions and providing insights on equipment usage.
- Collected feedback from attendees to assess the effectiveness of the demonstration and identify areas for improvement.

◦ **Noor International**

Engineer Intern

Aug 2024 - Aug 2024

Internship

- Helped to maintain technical documentation for potential customers.
- Developed an in-depth understanding of the key features, specifications, and applications of ventilators, anesthesia machines, diathermy, suction devices, endoscopy systems, ultrasound machines, blood gas analyzers, infusion pumps, and syringe pumps
- Stayed updated on the latest advancements and innovations in medical equipment technology.
- Participated in product training sessions to enhance my knowledge and skills.
- Worked closely with sales, service, and technical teams to ensure seamless delivery of solutions to customers.
- Visited various hospitals to handle purchase inquiries and service requests for the medical equipment.
- Attended on-site demonstrations and presentations to showcase the features and benefits of the equipment.

◦ **Darul Sehat Hospital**

Engineer Intern

Jul 2023 - Aug 2023

Internship

- Explored a diverse range of medical equipment, including Anesthesia machines, CT scan machines, ventilators, ABG Machines, and more.
- Participated in daily visits to different hospital departments, gaining practical insights into device components, working principles, and procedures.

- Aligned theoretical knowledge gained during the internship with academic courses such as Intro to Biomedical Engineering and Biomedical Instrumentation.
- Explored potential career paths as a service engineer or sales engineer in biomedical engineering through guided sessions.
- Developed practical skills in inspection, troubleshooting, and routine maintenance of medical devices, spanning diagnostic equipment, patient monitoring systems, ventilators, and infusion pumps.
- Familiarized with calibration and testing procedures to ensure the accuracy and reliability of medical equipment.
- Understood safety protocols associated with medical devices and identified potential risks, emphasizing the importance of safe operations.
- Gained insights into the broader field of biomedical engineering, including current trends, emerging technologies, and various career opportunities.
- Explored ethical and legal considerations in healthcare, focusing on patient confidentiality, informed consent, and liability issues related to medical devices.
- Visited different hospital departments, enhancing theoretical knowledge through practical visualization of medical devices in real-world settings.

VOLUNTEER EXPERIENCE

- **Volunteer** *Jul 2022 - Jul 2022*
Indus Hospital & Health Network (IHHN)
 - Collaborated in planning and organizing a fundraising gala at the university, engaging with students, faculty, and guests to promote the goals of supporting Indus Hospital.
 - Actively supported the execution of the charity auction, ensuring smooth operations, and assisted in collecting donations up to 1 million rupees.

EDUCATION

- **Salim Habib University** *Mar 2021 - Present*
BE Biomedical Engineering *Karachi*
- **Adamjee Govt. Science College** *Aug 2018 - Oct 2020*
HSC, Pre-Engineering *Karachi*
- **DHA SKBZ High School Phase VI** *April 2007 - Aug 2018*
Matric, Science *Karachi*

PROJECTS

- **Fabrication & Characterization of Multifunctional Smart Hydrogel for Strain Sensing Application** *Jan 2024 - Dec 2024*
 - Designed and synthesized a multifunctional hydrogel with enhanced flexibility and conductivity suitable for strain sensing in biomedical applications.
 - Performed mechanical, electrical, and morphological characterization to evaluate hydrogel performance under dynamic strain conditions.
 - Demonstrated the hydrogel's responsiveness to physical deformation, validating its potential for use in wearable and implantable biomedical sensors.

SKILLS

Technical Troubleshooting / Instrument Calibration / Analytical Thinking / Adaptability / Team Collaboration / Time Management / Technical Documentation / Customer Service

CERTIFICATIONS

- Dean Honorary Award *May 2025*
- Introduction to generative AI by SimpliLearn *July 2024*
- Digital Marketing Strategy by SimpliLearn *July 2024*
- Certificate of participation in DURS 2024 *May 2024*
- Certificate of Participation in Edvon Robotics League 5.0 *Aug 2022*

REFERENCES

References available upon request