

AHASHANUL KABIR SHAHID

Biomedical Engineer | Service & Sales Management

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PROFESSIONAL SUMMARY

Results-driven Biomedical Engineer with over 4 years of hands-on experience in field service, installation, and preventive maintenance of clinical laboratory analyzers. Specialist in Beckman Coulter and Werfen platforms across Biochemistry, Immunology, Hematology, Blood Gas, and Coagulation systems. Demonstrated ability to manage 30+ nationwide device deployments while maintaining high uptime and client satisfaction. Now leveraging deep technical expertise in a sales and service management capacity, with the ability to bridge clinical needs and commercial goals for both local and multinational healthcare companies in Bangladesh.

CORE COMPETENCIES

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| • Field Service Engineering | • Hematology Platforms | • Biochemistry and Immunology Platforms |
| • Spare Parts Management | • IQ/OQ/PQ Validation | • Service Report Preparation |
| • Preventive Maintenance and Calibration | • Service Contract Renewals | • Blood Gas and Coagulation Systems |
| • Pre-Sales Demonstrations | • Technical Sales Support | • User Training and QC Procedures |

WORK EXPERIENCE

Assistant Manager – Sales and Service

January 2026 – Present

LifeScience Technologies Limited

- Oversee installation, preventive maintenance, and troubleshooting of Werfen analyzer systems — including Blood Gas, ACT, Oximetry, Thromboelastometry, and Micro-coagulation platforms — across client sites nationwide.
- Manage key account relationships with hospital laboratories and diagnostic centers, ensuring high customer satisfaction and service contract renewals.
- Coordinate with the sales team to provide pre-sales technical demonstrations and post-sales support, contributing to revenue generation.
- Prepare service reports, track device performance metrics, and escalate technical issues to regional support teams.

Executive Service Engineer

June 2022 – December 2025

Overseas Marketing Corporation (OMC) Pvt. Ltd

- Installed, configured, and validated Beckman Coulter analyzers (AU series – Biochemistry, UniCel DxI – Immunology, DxH – Hematology, GEM Premier – Blood Gas, iQ200 – Urine Analysis) across 30+ sites nationwide.
- Performed scheduled preventive maintenance and calibration to ensure instrument performance, minimize downtime, and meet manufacturer compliance standards.
- Diagnosed and resolved complex hardware and software faults, reducing average call-to-resolution time through systematic troubleshooting.
- Delivered user training to laboratory technicians and senior staff on analyzer operation, reagent handling, and QC procedures.
- Maintained accurate service records and spare parts inventory in compliance with company and regulatory requirements.

Trainee Engineer

March 2021 – April 2021

National Electro-Medical Equipment Maintenance Workshop and Training Center (NEMEW & TC), Dhaka

- Gained practical exposure to maintenance and repair of electro-medical equipment in a nationally recognized biomedical training facility.

LANGUAGES

- **English** — Professional Working Proficiency. Capable of preparing technical service reports, client-facing communication, and product documentation in English.
- **Bangla** — Native language.

EDUCATION

B.Sc. in Biomedical Engineering

Military Institute of Science and Technology (MIST), Dhaka

GPA: 3.01 / 4.00
Feb 2018 – April 2022

Higher Secondary Certificate (HSC)

Bogura Cantonment Public School and College

GPA: 5.00 / 5.00
June 2015 – April 2017

Secondary School Certificate (SSC)

Bogura Cantonment Public School and College

GPA: 5.00 / 5.00
Jan 2013 – Feb 2015

RESEARCH

Undergraduate Thesis – MIST

March 2021 – March 2022

"Design and Development of a Cost-Effective IoT-Based Syringe Infusion Pump"

- Designed and prototyped a low-cost, microcontroller-driven syringe infusion pump with IoT-based remote monitoring using Arduino and a custom-designed PCB.
- Focused on improving affordability and accessibility of critical infusion therapy devices for resource-limited clinical settings in Bangladesh.
- Conducted hardware testing, software integration, and performance validation as part of the complete design-to-prototype cycle.

Supervisor: Col. Syed Mahfuzur Rahman | Sub-supervisor: F.M. Tanvir Hasan Raian

TECHNICAL SKILLS

Analyzer Platforms: Beckman Coulter: AU series (Biochemistry), UniCel DxI (Immunology), DxH (Hematology), GEM Premier (Blood Gas), iQ200 (Urine Analysis)

Werfen: Blood Gas, ACT, Oximetry, Thromboelastometry, Micro-coagulation systems

Service Competencies: Installation & commissioning, preventive maintenance, calibration, IQ/OQ/PQ validation, spare parts management, fault diagnosis

Embedded Systems: Arduino (IoT applications), PCB design, print, drill & soldering, CNC machining, 3D printing (Ultimaker S5 Pro)

Programming: C, C++ for microcontroller programming; MATLAB for signal processing and data analysis

Engineering Software: SolidWorks (3D CAD modelling), Mimics (medical image processing), Proteus (circuit simulation & PCB design)

TRAINING

- Beckman Coulter Product & Service Training: Comprehensive training on biochemistry, immunology, hematology, blood gas, and urine analyzer installation, maintenance, and troubleshooting. OMC Pvt. Ltd (2022–2025).
- Werfen Analyzer Installation & Service Training: Hands-on training covering Blood Gas, ACT, Oximetry, Thromboelastometry, and Micro-coagulation systems. LifeScience Technologies Limited (2026).
- Electro-Medical Equipment Maintenance: Foundational training in maintenance, calibration, and repair of a broad range of clinical and electro-medical devices. NEMEW & TC, Dhaka (2021).

LEADERSHIP & ACTIVITIES

Head of Online Management – MIST Einthoven Club

May 2021 – May 2022

MIST Einthoven Club is the official biomedical engineering society of MIST, focused on academic and technical development of students.

- Led digital coordination and online management for 'Anuronon', a national multi-university biomedical tech fest, overseeing event promotion, online registration, and social media communication.
- Managed a team of volunteers to deliver seamless digital operations across competitions including poster presentations, project showcases, website design contests, and a memory championship.

REFERENCES

Colonel Syed Mahfuzur Rahman | Head of Department, Biomedical Engineering, MIST | head@bme.mist.ac.bd
Md. Golam Sarwardi | Consultant & Head, Healthcare Division, Overseas Marketing Corporation (OMC) Pvt. Ltd | sarwar@omcbd.com