



MOHAMED IRFANUDEEN R.S

Biomedical Engineer

CORE COMPETENCIES

Hospital Asset Management
Equipment Lifecycle Management
Biomedical Equipment Maintenance
Product Testing & Validation
Audit Documentation & Regulatory
Preventive & Corrective
Maintenance Planning
Data Uploading, Validation & QA
Compliance (ISO 13485, IEC
60601)
Hospital Operations & Stakeholder
Coordination

CONTACT DETAILS

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Portfolio:

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Thiruvarur District, Tamil Nadu
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LANGUAGE

English, Malayalam, Arabic, Tamil

CAREER SUMMARY

Biomedical and Asset Management Engineer with hands-on experience in hospital asset lifecycle management, preventive and corrective maintenance planning, RFID-based asset tracking, and regulatory compliance. Proven ability to manage biomedical, laboratory and Non-Biomedical equipment across multi-department hospital environments. Strong expertise in data-driven maintenance planning, documentation and enterprise hospital asset management systems to improve equipment uptime, patient safety, and operational

PROFESSIONAL EXPERIENCE

Proteger AI Private Limited., Bangalore (Jan -Dec 2025)

Biomedical Asset Management Specialist - Client Assignment:
BLDE Deemed to be University (**Apr-Dec 2025**)

- Conducted asset inventory Audits, supported equipment lifecycle management, ensuring compliance with hospital and industry standards. Collaborated with hospital teams and vendors to improve asset management workflows, documentation, and regulatory reporting.

Junior Biomedical Engineer (Jan-Apr 2025)

- Researched RFID-based asset tracking systems for integration into Vajra hospital asset management software. Carried out product testing, functional validation, and API testing

Key Achievements:

- Led and supported hospital-wide physical audits across 30+ units. Reviewed and consolidated historical invoice documentation (2008–2025) to establish accurate asset traceability
- Played a key role in VAJRA asset data upload, validation, and deployment Contributed to improved asset traceability and audit readiness. Recognized by hospital authorities for dedication, accountability, and professionalism

SKILLS

- Communication
- Leadership
- Project Management
- Audit Documentation & Reporting
- Product Testing & Quality Assurance
- Sales & Customer Management
- Teamwork & Collaboration
- Compliance & Regulatory Documentation Support
- Product Development

PATENT

G Samuelraj Chrysolite, **Mohamed Irfanudeen**, Antojose “A wearable eyelid antenna sensor for real-time driver drowsiness monitoring,” Patent published., 2025,
Application No: **202541031148**

TECHNICAL SKILLS

Programming: Python, C Program

Tools & Software: Altair FEKO, LabVIEW, Postman, MS Excel, Power Query, MS PowerPoint, MS Word, Google spreadsheet AutoCAD, Arduino IDE, PyCharm, VS Studio

Standards & Systems: ISO 13485, ISO 14971, IEC 60601, RFID & IoT Systems

Biomedical Engineer Intern – Prashan Medical Technologies., Coimbatore (May– June 2024)

- Participated in installation, calibration, and performance verification of critical care and diagnostic equipment.
- Assisted with troubleshooting activities under senior engineer guidance.

Biomedical Intern - Thiruvavur Medical Centre., Tiruvavur (May-June 2023)

- Assisted in documenting device performance, fault reports, and maintenance records to enhance reliability and compliance.

EDUCATION

B.Tech, Biomedical Engineering with specialization in AI & ML at Karunya Institute of Technology and Sciences (2021 – 2025)

CGPA:8.47.

Class 12, O.M.D Matriculation Higher Secondary School. (2021)

State Board of Tamilnadu.:88.1%

Class 10, O.M.D Matriculation Higher Secondary School (2019)

State Board of Tamilnadu.:86.4%

PROJECTS

- Developed a machine learning-based gastrointestinal disease classification system using endoscopic images, supporting faster and more accurate clinical decision-making
- Designed and implemented a CNN-based blood group detection system, improving diagnostic classification accuracy
- Designed, simulated, and tested a wearable eyelid antenna sensor using Altair FEKO, enabling real-time driver drowsiness detection
- Built Arduino-based prototypes for driver drowsiness detection and obstacle recognition, enhancing safety and assistive mobility

DECLARATION

I am enthusiastic about advancing my career and dedicated to working diligently to meet the objectives of my organization. I hereby declare that the information provided in this CV is true and accurate to the best of my knowledge.

R.S. Mohamed Irfanudeen

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