

MANOJ V

Biomedical Engineer

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CAREER OBJECTIVE

I'm a Biomedical Engineering graduate with real-world training in handling and checking hospital equipment. I'm looking for a Calibration, Field Service and Quality Checking Engineer role where I can use my skills to make sure medical devices work safely and properly. I'm eager to learn more, grow in this field, and help improve patient care through quality service.

EDUCATION

Kings Engineering College, Sriperumbudur B.E. Biomedical Engineering	August 2022 -Present CGPA: 7.4
Government Boys Higher Secondary School, Nemili HSC	June 2021 - May 2022 Percentage: 57
Vivekanandha Metric Higher Secondary School, Nemili SSLC	June 2019 - May 2020 Percentage: 87

PROFESSIONAL EXPERIENCE

- **Chennai National Hospital- Chennai(Trainee)** Aug- Sep 2025
Advanced training in hospital and equipment management.
- **KV's Biomedical- Chennai(Trainee)** July 2025
Advanced training in industrial biomedical systems.
- **Peacock Hospitals Pvt Ltd- Thiruthani(Intern)** May- Jun 2025
Actively Performed daily checks on ER department and OT department.
- **Dr. Venkateshwara Ortho and Trauma Care- Kanchipuram(Intern)** May 2025
Assisted an OT Biomedical Engineer Biomedical Engineering to implant a Petella.
- **Sri Ne Medical Foundation- Kanchipuram(Intern)** Jan- Feb 2025
Assisted with calibrating radiological equipments calibrating and quality assurance (QA).

SKILLS

Hardware& Embedded: Microcontrollers (Arduino, Raspberry pi, ESP32), C / C++ Embedded, PCB design.

Software & Tools: MATLAB, EDA (KiCad, Eagle CAD), IDE (VS Code, Arduino IDE), Linux, Office Suite.

Quality & Service: Quality assurance, Equipment calibration, Equipment troubleshooting, Preventive maintenance, Technical documentation.

Web Technologies: Frontend.

EVENTS/COURSES

Smart India Hackathon

- IoMT- Smart device for legacy medical device. 2025
Selected as top 3 best idea over 150+ teams in Internal Hackathon.
- Cost Effective Myoelectric Prosthetic Hand. 2024
Selected as best idea from the department.

Paper Presentation

- IoT Based IV Bag Monitoring System.
- Patient Monitoring System in Tele Medicine.
- Automated Pharmacy.

CONFERENCE

1. **International Conference on Recent Trends and Development in Electrical and Power Engineering by Bharat Institute of Higher Education and research [ICRTDEPE 2024]**
In this conference I submit a paper a Navigating Surgical Emergencies: The impact of power outages.
2. **International Conference on Innovation and Technology by Kings Engineering College [ICICET 2024]**
In this conference I submit a paper about a IoT Based IV bag Monitoring and Switching System.

PROJECT WORK

Myo-electric Prosthetic limb (2023)

A myo-electric prosthetic limb prototype that translates the user's electromyography (EMG) signals into functional hand movements.

Adaptive Robotic Therapy Table for Arm and Wrist Rehabilitation.(2024)

Designed an adaptive robotic therapy table for upper-limb rehabilitation, a project concept that was submitted to the Ministry of MSME.

Automated Cervical Posture Monitoring & Correcting Collar (2025)

Developed a smart collar that monitors cervical posture and provides real-time corrective feedback, leading to a project submission to the TNSCST.

My Portfolio: <https://manomedengg.github.io/Profilo/>

DECLARATION

I hereby declare that the information provided above is true to the best of my knowledge and belief.



Manoj V