

# MANOJ V

## Biomedical Engineer

Nemili, Ranipet- 631051 ◊ +91 7358878062 ◊ manoj.venu23@gmail.com  
linkedin.com/manojvenu ◊ github.com/ManoMedEngg

### 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

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

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### Smart India Hackathon

- IoMT- Smart device for legacy medical device. 2025  
Selected as top 3 best idea over 150+ teams in Internal Hachathon.
- 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

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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

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### 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

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



Manoj V