

NIJANTHAN M

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Executive Summary

Biomedical Engineering student with knowledge in medical devices, instrumentation, and healthcare technologies. Skilled in Python, MATLAB, biomedical systems, and IoT-based healthcare projects. Hands-on experience through hospital internships and biomedical research projects. Strong problem-solving, communication, and teamwork abilities with a passion for healthcare innovation.

Technical Skills

- Programming: C, Python, MATLAB
- Tools & Software: Microsoft 365, Basics Excel, Arduino IDE
- Database: MongoDB (Basic)
- Soft Skills: Communication, Teamwork, Problem Solving, Adaptability

Professional Internships

CNS Multispeciality Hospital, Avinashi | Intern | 2024

- Assisted in handling, calibration, and maintenance of biomedical equipment.
- Supported preventive maintenance and troubleshooting procedures.
- Worked with hospital staff to ensure proper equipment usage.

SUT Hospital, Trivandrum & BR Hospital, Tiruchirappalli | Intern | 2025

- Assisted in equipment diagnostics and preventive maintenance.
- Observed real-time clinical workflows and medical system operations.
- Learned healthcare compliance and safety protocols.

Prashan Medical Techniques, Coimbatore | Trainee | 2023

- Received implant training focused on biomedical equipment.
- Observed instrumentation techniques and maintenance workflows.

Harvey Biomedical, Bangalore | Industrial Visit | 2024

- Observed biomedical equipment operations and management processes.
- Interacted with industry professionals to understand real-world applications.

Projects

Non-Invasive Blood Clot Biomarker Detection for Early Stroke Diagnosis | 2024

- Developed a biomedical detection system for early stroke diagnosis.
- Applied sensors and instrumentation techniques in prototype development.
- Completed a 2-month research-based project.

IoT-Enabled Smart Assistive Glove for Speech-Impaired Individuals | 2025

- Designed a wearable assistive glove using ESP32, flex, and tilt sensors.
- Integrated gesture recognition, GPS tracking, and emergency alert system.
- Developed a portable and cost-effective healthcare innovation.

Education

- B.E. Biomedical Engineering, Dhanalakshmi Srinivasan Engineering College | 2026
- Higher Secondary Certificate (CBSE), SRM Public School | 2022
- Secondary School Leaving Certificate (CBSE), Morning Star Higher Secondary School | 2020

Awards & Accomplishments

- First Class with Distinction in Junior Grade Typewriting (English).
- Presented research on Brain–Computer Interfaces at an International Conference.
- Attended AI Revolution in Cyber Security Summit 2023.
- Startup Pitching Participant – Emergence 2025, CII Trichy.
- Participated In International Conference On Integrating Recent Innovations In Science And Technology 2026.

DATE:

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SIGNATURE

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