

PRASANTH R

BIOMEDICAL ENGINEER

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SUMMARY

Biomedical Engineering student with a 9.47 CGPA and expertise in medical instrumentation, embedded systems, and healthcare IoT. GATE 2026 qualified (AIR 305) with hands-on experience in clinical engineering, biomedical projects, and research-focused healthcare technologies.

EDUCATION

B.E. Biomedical Engineering

2023 - 2027

Rajalakshmi Engineering College, Thandalam

- CGPA: 9.47 (as of 5th semester)
- Secured 1st Rank in 4 semesters

Higher Secondary Certificate

2021 - 2023

Loyola Matric Higher Secondary School, Kodambakkam

- Scored 93% and secured School First Rank

ACADEMIC PROJECTS

- **Plant Extract-Infused Hydrogel for Ischemia Management (Ongoing – 2026)**
Developed plant extract-based hydrogel for ischemic tissue treatment. Conducting characterization studies with process-patent application underway
- **Voice-Based Patient Assistance System with Real-Time IoT (2026)**
Developed voice-enabled patient assistance platform integrated with real-time IoT communication
- **Cell Impedance Monitoring System using Arduino Nano (2025)**
Designed low-cost bioimpedance monitoring system for analyzing cellular electrical impedance
- **Arduino-Based Smart Medicine Reminder & Stress Monitor (2025)**
Developed medication reminder system with audio-visual alerts and heart-rate-based stress monitoring

CORE EXPERIENCES & INTERNSHIPS

- **Rayone Group, Ambattur | Clinical Engineering Intern | June 2025**
Biomedical equipment handling and preventive maintenance.
- **KV's Biomedical Innovation and Learning Hub, Tambaram | Biomedical Engineering Intern | January 2025**
Enhanced practical knowledge of biomedical devices and healthcare technologies.
- **NSIC, Guindy | Embedded Systems & IoT Intern | February 2024**
Embedded systems, IoT, and PCB designing.

SKILLS & COMPETENCIES

- **Core Biomedical Skills:**

Medical Equipment Handling | Biomedical Signal Acquisition | Patient Monitoring Systems | Fundamentals of Device Calibration & Safety Inspection

- **Technical & Embedded Systems:**

Arduino IDE | MATLAB | Simulink | Sensor Interfacing | PCB Designing Fundamentals

- **Software & Tools:**

Python | Machine Learning Fundamentals | MS Office | Canva

- **Soft Skills:**

Technical Leadership | Team Management | Critical Thinking | Public Speaking

- **Languages:**

English | Tamil

LEADERSHIP, ACHIEVEMENTS & EXTRACURRICULARS

- Qualified GATE 2026 in Biomedical Engineering with AIR 305.
- Received Student of the Year Award (2025–26)
- Awarded Lady Parvatham Trust Award (2024–25) for securing 2nd rank across all engineering departments
- Served as President of Ethics Club and Vice President of Biomedical Engineers Association.
- Coordinated “Cognito” National Symposium during TITANIUM 2026.
- Received the Student Representative Award for leadership, dedication, and commitment (2024-25)
- Participated in Smart India Hackathon 2025 with “NOVATRA”.
- Won prizes during Brain Awareness Week and Recharge 2026 cultural competitions.
- Won 3rd Prize in iQUEST 2026 Project Presentation.

CERTIFICATIONS & TECHNICAL VISITS

- NPTEL Domain Certification in Bioengineering (6 courses / 50 weeks)
- IoT Training Program certified by TANSAM, Siemens & TIDCO (2025)
- Industrial Visits:
 - Skanray Technologies (Equipment Manufacturing & QA)
 - Rajalakshmi Medical College Hospital (Clinical Pathology & Medical Equipments)
 - Biomedical Cable Plant (ECG & Transducer Cable Manufacturing)