RITU BHAT

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PROFILE

Dedicated and passionate 3rd-year Medical Electronics Engineering student at M.S Ramaiah Institute of Technology with strong academic performance (CGPA: 8.77) and a Minor in Artificial Intelligence. Experienced in biomedical devices, signal processing, and embedded systems, with proven leadership through IEEE EMBS roles. Actively seeking opportunities to apply technical and analytical skills in health tech innovations, medical device R&D, product development and AI-integrated healthcare solutions.

EDUCATION

M.S. Ramaiah Institute of Technology, Bangalore
B.E. – Medical Electronics Engineering
Minor degree in Artificial Intelligence | CGPA: 8.77 (Till 5th Sem) | Expected Graduation: 2026

Mount Carmel PU College, Bangalore –(PCME) - 92.83%

Stella Maris High School, Bangalore – (10th standard) -90.24%

EXPERIENCE

Observation Intern – Ramaiah Memorial Hospital (Sep 2024 – Oct 2024)
- Observed the working of EEG, EMG, NCS, IONM, and ECoG equipment.
- Observed intraoperative neuro-monitoring and clinical workflows in neurosurgery.

Hackathon Participant– IEEE R10 “Samanvaya” – Dayananda Sagar Engineering College (2024)
- Develope a 3D-printed ultrasound probe holder for carotid artery imaging.
- Contributed to concept design, mechanical prototyping, and demo under deadline.

Treasurer – IEEE RIT EMBS Society – MSRIT (2023 – Present)
- Managed society budgets and organized biomedical engineering events.
- Improved outreach and participation through structured event planning.

TECHNICAL SKILLS

Programming: C, C++, Java, MATLAB
Tools & Technologies:, Signal Processing, Embedded Systems, Control system, Circuit design
Biomedical Exposure: EEG, EMG, NCS, IONM, ECoG
AI Concepts (Pursuing): Machine Learning, Data Science, Deep Learning

STRENGTHS

Strong Communication & Leadership, Problem Solving & Critical Thinking, Team Collaboration & Time Management, Event Planning & Budget Handling

INTERESTS

- Product Design and Development
- IoT and Wearable Electronic Devices
- Signal Processing and Biosensors
- Medical Imaging Technologies
- Research and Development