# NETHRU BHARGAVI JOSYULA

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## CAREER OBJECTIVE

Aspiring Medical Electronics Engineer with expertise in biomedical instrumentation, signal and image processing, and rehabilitation technology. Passionate about developing innovative healthcare solutions and contributing to medical device design and research.

## TECHNICAL SKILLS

**Programming & Web Development:**
C, C++, Java, Python, HTML, CSS, JavaScript, Bootstrap

**Tools & Platforms:**
MATLAB, Arduino, Code Composer Studio, Scilab, Visual Studio Code

**Core Technical Knowledge:**
Biomedical Signal Processing, Biomedical Image Processing, Biomedical Instrumentation, Analog & Digital Circuits, Linear Integrated Circuits, Front-End Web Development

**Soft Skills:**
Time Management, Team Collaboration, Detail-Oriented, Research Skills, Leadership, Communication, Problem-Solving

## PROFESSIONAL EXPERIENCE

**Fresher – Actively Seeking Opportunities**
Passionate Medical Electronics Engineering student eager to apply academic knowledge and project experience in real-world settings. Open to internships, research positions, and entry-level roles in biomedical engineering, healthcare technology, or medical device development.

## PROJECTS

**AI-Based Motion Tracking and Rehabilitation for Finger and Wrist Therapy**
- Designed an AI-powered system for tracking finger and wrist movements during rehabilitation.
- Developed a user interface to provide real-time feedback, ensuring exercises are performed correctly.
- Tools & Concepts: AI, Motion Tracking, Machine Learning, UI Design

**Space Tour Website**
- Built an interactive and visually engaging website using HTML, CSS, JavaScript, Bootstrap, and jQuery.
- Focused on delivering a smooth user experience with responsive layouts and dynamic UI components.

**COVID's Aftermath Website**
- Designed and developed a content-rich website showcasing the post-pandemic impact using HTML, CSS, JavaScript, Bootstrap, and jQuery.
- Handled complete frontend development with emphasis on responsive design and user-friendly navigation.

## EDUCATION

**Bachelor of Engineering (B.E), Medical Electronics Engineering**
Ramaiah Institute of Technology, Bengaluru
Expected May 2026
**CGPA**: 8.83

**Relevant Coursework:**
Biomedical Instrumentation, Signal Processing, Analog & Digital Circuits, Linear Integrated Circuits, Medical Imaging, AI in Healthcare

## CERTIFICATIONS & COURSES

- Introduction to Electronics – Coursera (Georgia Tech)
- Sensors and Systems for Biomedical Applications – Indian Institute of Science (IISc)
- Web Development – Udemy

## EXTRACURRICULAR ACTIVITIES

**Leadership & Volunteering:**
- Technical Head, IEEE EMBS – RIT
- Research Head, Tech Society – RIT
- Stage Design Volunteer, TEDx MSRIT – RIT
- Coordinator of an IEEE EMBS event - From Pixels to Prognosis: The Role of AI in Image Processing.

**Competitions:**
- First place in Product Design Competition with time limit under 30 minutes.
- Participant, Samanvaya – IEEE R10 Hackathon, DSCE
  - Designed an affordable medical device using AI to detect plaque in the carotid artery using ML models and provided datasets.
- 2nd Place, Criminal Inquest, Udbhav College Fest – RIT (2024)
  - Forensic investigation competition testing logic and analytical skills.