



MONIKA C N

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//Actively seeking full-time opportunities

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EDUCATION AND TRAINING

BACHELOR OF ENGINEERING, November 2022 - May 2026
M.S. RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU, KARNATAKA
Branch : Electronics and Telecommunication Engineering

RELEVANT COURSEWORK

- Analog Electronics
- Digital Electronics
- Signals and Systems
- Digital Signal Processing (DSP)
- Data Structures & Algorithms
- Research Methodology
- VLSI Design Fundamentals
- Microcontrollers & Embedded Systems
- Front-end Development
- Electronic Circuits & Devices
- Python Programming
- Back-end Development

SUMMARY

Electronics and Telecommunication Engineering student at M.S. Ramaiah Institute of Technology with a strong foundation in communication systems, electronics, and emerging technologies. Skilled in applying technical expertise, problem-solving abilities, and innovative thinking to real-world challenges. Experienced in academic and project-based work involving IoT, embedded systems, VLSI, DSP, and machine learning applications. Demonstrated ability to approach complex problems with analytical precision and deliver creative, practical solutions. Seeking a full-time position to contribute to a forward-thinking organization, leverage technical skills, and drive impactful results in the field of Full-Stack Development and core electronics and telecommunication.

SKILLS

- C / C++/ C# Programming
- Python
- Full-Stack Development
- MATLAB
- IoT and Embedded Systems
- VLSI
- Microcontroller
- Machine Learning
- Real-Time Operating Systems (RTOS)
- Java Programming
- Agile methadologies
- Digital Signal Processing (DSP)
- Communication Skills
- Problem Solving
- Critical Thinking
- Time Management
- Creativity
- Leadership and Collaboration

PROJECTS

1. Hydroponics System

Developed an IoT-based automated hydroponics system using sensors and microcontrollers to monitor pH, nutrient levels, and temperature. Implemented automated regulation and real-time data visualization for optimized plant growth.

2. Smart Key Chain

Created a Bluetooth-enabled smart keychain with a mobile app for real-time location tracking. Integrated low-energy Bluetooth for extended battery life and seamless connectivity.

3. Smart Door Lock System

Engineered an IoT-based smart locking mechanism with password and RFID authentication for enhanced security. Enabled remote access control via smartphone with fail-safe offline operation.

4. Activity Recognition and Safety Monitoring System

Built a wearable sensor-based device to recognize user activities and detect anomalies. Added real-time alerts to emergency contacts for enhanced personal safety.

5. Computer Vision-Driven Human Detection and Counting System

Developed a Python and OpenCV-based system for real-time human detection and counting. Applied machine learning models for accurate crowd analysis and security monitoring.

LANGUAGES

- English (Fluent)
- Kannada (Fluent)
- Hindi (Fluent)