RANJITHA D

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Objective:

Aspiring Software Engineer with an academic background in Electronics and Communication Engineering and a strong interest in software testing and quality assurance. Currently undergoing professional training in Manual Testing, Java, and SQL at QSpiders. Possess hands-on experience through academic projects and internships, with a good understanding of programming, embedded systems, and problem-solving concepts. Eager to contribute to delivering high-quality, reliable software solutions while continuously learning and growing in a dynamic tech environment.

Technical Skills:

Programming Languages: Java
Testing Skills: Manual Testing, SDLC, STLC, Test Case Design, Defect Life Cycle
Databases: SQL
Tools & IDEs: Git, Visual Studio Code, Edit plus, Git-hub
Operating Systems: Windows

Education:

Bachelor of Engineering (B.E) – Electronics and Communication Engineering
Akshaya Institute of Technology, Tumkur – 572103
Passed year: June,2025
CGPA : 7.88 out of 10

Pre-University Education (PUC)
Vishwa Manava Composite PU College, Seebara-Guttinadu, Chitradurga.
Passed year :2021
Percentage(%):78.5%

Higher Primary Education
Vishwa Manava Residential High School, Seebara-Guttinadu, Chitradurga
Passed year:2019
Percentage(%):75.20%

Projects:

Project Title: Automatic Pet Food Dispenser

Description: Designed and developed an automatic pet food dispenser using embedded system components to dispense food at predefined intervals. The system reduces manual effort and ensures timely feeding using sensors and controller-based automation.
Technologies Used: Embedded Systems, Microcontroller, Sensors
Role: Project Developer – design, hardware integration, and basic logic implementation
Outcome: Gained hands-on experience in embedded system design, automation concepts, and real-time problem-solving.

Project Title: Image Anonymization using MATLAB

Description: Developed an image anonymization system using MATLAB to hide or blur sensitive regions in images. The project focused on image processing techniques to protect privacy in digital images.

Technologies Used: MATLAB, Image Processing

Role: Project Developer – algorithm implementation and result analysis

Outcome: Learned image processing fundamentals and how technology can be used to enhance data privacy.

Project Title: Automated Metro Without Human Driver

Description: Conceptualized an automated metro system that operates without human intervention by using control logic and automation principles. The system focuses on safety, scheduling, and efficient transport management.

Technologies Used: Automation Concepts, Embedded Systems

Role: Team Member – concept design and logic development

Outcome: Understood automation, control systems, and the importance of reliability in safety-critical applications**.**

Project Title: Smart Parking System Using Embedded Systems and IoT

Description: Developed an IoT-based smart parking system to monitor parking slot availability in real time using sensors and communication modules. The system helps reduce congestion and improves parking efficiency.

Technologies Used: Embedded Systems, IoT, Sensors

Role: Project Developer – sensor integration and system logic

Outcome: Gained practical knowledge of IoT architecture, real-time monitoring, and system integration.

Experience:

Trainee – Manual Testing (Ongoing)

QSpiders, Bengaluru

Duration: October,2025 – Present

- Learning Manual Testing concepts including SDLC, STLC, test case design, and defect life cycle.
- Practicing test scenario creation and execution for sample applications.
- Gaining exposure to Java and SQL fundamentals for testing purposes.

Extracurricular Activities:

Volunteer – TECHNICA 2K23 (Inter-College Mini Project Exhibition)

- Assisted in organizing and coordinating technical project exhibitions.
- Interacted with participants and helped manage event activities efficiently.

Participant – TECHNICA 2K24 (Department-Level Mini Project Exhibition, AIT)

- Presented academic projects and explained technical concepts to evaluators.
- Gained experience in technical communication and teamwork.

Participant – Innovative Project and Model Competition

- Showcased innovative project ideas and working models.
- Improved presentation skills and practical understanding of engineering concepts.