YUVRAJ TRIVEDI

www.linkedin.com/in/yuvraj-trivedi-640109247

trivedi.yuvraj2005@gmail.com

+91 9753441111

SUMMARY

Passionate Embedded Systems and IoT engineer with practical experience in microcontroller programming, sensor interfacing, and robotics. Skilled in Python, Java, Arduino, ESP32, and Raspberry Pi with a strong understanding of embedded hardware and real-time data communication. Experienced in developing smart automation solutions, integrating IoT protocols , and building robotic systems for real-world applications. Eager to contribute technical expertise to innovative projects in embedded systems, IoT, and robotics.

WORK EXPERIENCE

Internship at India Space Labs   **Dec 2024 - Jan 2025**

- Engaged in hands-on aerospace training, contributing to satellite prototyping and drone technology modules within a structured space science curriculum.
- Collaborated with multidisciplinary teams to explore CubeSat systems and space entrepreneurship, applying theoretical knowledge to real-world space tech challenges.

PROJECTS

Predictive Maintenance for Industry Devices

- Designed and implemented an IoT-based predictive maintenance system using sensors (temperature, vibration, torque, etc.) and microcontrollers to monitor industrial equipment health in real-time.
- Developed a web dashboard for data visualization and threshold-based alerts to predict failures and minimize downtime, improving operational efficiency.

Plant Health Monitoring System

- Developed an IoT-based Plant Health Monitoring System using NodeMCU, soil moisture, temperature, and humidity sensors to enable real-time monitoring of plant conditions.
- Integrated the Blynk platform for remote data visualization and automated irrigation control, promoting efficient water usage and smart farming practices.

EDUCATION

Btech. in Electronics and Communications Engineering (VIT)   **Oct 2022 - Aug 2026**

CGPA - 8.2 (Current)

CERTIFICATES

Diploma in Mechatronics - Alison
MicroPython Primer - NIELIT, Calicut
Internet of Things and the Cloud - Alison
Project Management Fundamentals- IBM

ADDITIONAL SKILLS

- Project Management
- Team and Event Management
- PR and Outreach
- Planning and execution

CORE SKILLS

- Microcontroller Programming
- Internet of Things (IoT)
- Verilog Programming
- Sensor Integration
- IoT Protocols