LAVITRA SAHU

INTERNET OF THINGS ENGINEER

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PROFILE SUMMARY

- Embedded Systems and Avionics Engineer experienced in designing real-time flight computers, PCB systems, and IoT architectures.
- Built 25+ engineering-grade projects and delivered workshops to 1000+ students.
- Contributed to systems tested in Teknofest and IN-SPACe competitions.

TECHNICAL SKILLS

- Microcontrollers: ESP32, Pico, Arduino Nano BLE
- SBC: Raspberry Pi, Jetson Nano
- Sensors & IMU Fusion (BNO085, BMP390)
- PCB Design: EasyEDA, DRC, noise optimisation
- Telemetry & Avionics systems
- Python, C/C++
- Real-time debugging & testing
- CAD, 3D Printing & Enclosure Design

EDUCATION

B.Tech - Computer Science (IoT), PSIT Kanpur — 2021–2025

Senior Secondary — Laughing Buddha Academy (2021)

High School — Delhi Public School, Kalyanpur (2019)

PROJECT HIGHLIGHTS

Avionics – Teknofest

Designed flight computer integrating IMU, barometer, pyro control, and telemetry for competition-level missions.

IN-SPACe Dual-MCU Avionics Board

Built a reliable dual-MCU PCB for event sequencing, redundancy, and flight data logging.

Quadruped Robot (Vaman)

Worked on IMU-based gait stabilization and LiDAR mapping for locomotion and obstacle avoidance.

ACHIEVEMENTS

• 2nd Prize – IN-SPACe ISRO Rocket Competition (2025)

• Best CanSat Design Award – IN-SPACe (2025)

• Completed Teknofest technical review stages (2024)

• Conducted 10+ workshops; trained 1000+ students

TOOLS & TECHNOLOGIES

YOLOv5/8, OpenCV, EasyOCR, Jetson Nano, Docker, Git, Fusion360

STRENGTHS

• Hands-on engineering

• Hardware-software integration

• Debugging under pressure

• Clear documentation

• Teaching & mentorship