

HARSHA VARDHAN NAIDU LEKKALA

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Skills

Programming: C, C++, Python, Embedded c

Tools: TensorFlow, Flutter, NodeMCU, Firebase, Git, Arduino IDE, VS Code, Grafana.

Experience

Embedded Engineer II

Boson Motors Pvt Ltd — May 2024–Present

- Managed vehicle telemetry data & analytics for production/test vehicles; automated data loss detection (InfluxDB, Grafana, Python).
- Improved operational efficiency, validated vehicle data, and resolved bugs in Android apps.

Freelancer: Web & Android Developer — May 2024–Feb 2025

- Led website development (WordPress, Hostinger) and built Android apps (Flutter, Firebase, Gemini API) with real-time features .

IoT & Full Stack Developer Intern

MSRTech Research Labz — Dec 2023–Apr 2024

- Developed scalable IoT solutions and managed end-to-end full-stack development (WordPress, MongoDB).
- Mentored junior developers, managed data pipelines, and delivered software solutions to deadlines.
- Led project management (Jira); API development in Python, Google AI Vision Kit, C, and C++.

Projects

- **Solar Tree:** Designed/deployed IoT-based solar energy integration for urban spaces. Hardware/software integration using NodeMCU, Arduino IDE, C, Firebase.
- **Wearable AI Sensor for Elderly:** Built real-time fall detection system (Flutter, ESP32, Python, AI/ML, Firebase, OTA updates).
- **Solar Cleaning Bot (Patent Filed):** Autonomous bot increased solar panel output by 40% using Embedded C, NodeMCU, Firebase.

Achievements

- Winner, NIT AP Startup Expo 2023 | Finalist, Smart India Hackathon 2022
- Project Expo Winner (2022, 2023,2024 SRKR Engineering College)
- Selected and attend, AICTE IDE Boot Camp 2023 (Startup/Design Thinking, Chennai)

Leadership & Activities

- Vice Chairperson, IEEE Student Branch, SRKR Engineering College (2023)
- Resource Person: Android App Development, IoT Workshops,pcb design

Education

MSc (Data Science) - 2024 - present
Kalasalingam Academy of Research and Education ,CDOE.

B.Tech, Electrical and Electronics Engineering
S.R.K.R. Engineering College, Bhimavaram, AP — 2021-2024

Diploma, Electrical and Electronics Engineering
M.R.A.G.R. Govt. Polytechnic, Vizianagaram, AP — 2018-2021 | %: 86 | ECET Rank: 123