Nayan Moni Hazarika

Blended technical and leadership engineering leader with hands-on IoT, embedded Android, and telematics experience.

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WORK EXPERIENCE

Freelance Engineer Vyomchara Pvt Ltd
Nov 2025 - Present

- Polishing a smart-home DVR device for private 5G deployment, optimizing networking and stream stability for continuous operations.
- Implemented MQTT-based perimeter automation integrating sensors and actuators, enabling deterministic local responses in constrained networks.
- Developed edge inference and media offload pipelines on Jetson hardware, improving analytics throughput while reducing CPU load.

Freelance Engineer Texmin (IIT(ISM)-Dhanbad)
Apr 2025 - Nov 2025

- Designed and deployed DVR+telematics prototypes (2/4-camera) using Jetson and Raspberry Pi for industrial monitoring and automation.
- Integrated real-time video capture, edge inference, and secure telemetry streams, improving remote monitoring and reducing false alerts.
- Delivered production-ready prototypes and documentation while collaborating with IIT(ISM)-Dhanbad stakeholders for field validations.

VP of Technology Trackx (formerly Carx)

Mar 2020 - Mar 2025

- Built end-to-end Android device and telematics stack (Java, Android SDK), enabling production deployment and OTA updates for fleet devices.
- Led R&D and product-flexibility initiatives, introducing modular APIs and OTA pipelines to shorten feature rollout time significantly.
- Scaled device fleet from ~50 to ~25,000 and achieved ~500% growth in usage/adoption through product and ops improvements.
- Managed and mentored a team of 5, instituted CI/CD with Docker-based pipelines, and trained interns to expand engineering capacity.

CORE SKILLS

Embedded & IoT: Android (Java, Android SDK), Jetson, Raspberry Pi, Arduino (.ino), MQTT, DVR systems, edge inference, private 5G

Cloud & Backend: Node.js, Python, MongoDB, SQL, OTA updates, telemetry pipelines, Docker, AWS/GCP/Azure

Frontend & Tools: React.js, Linux, Git, CI/CD, GStreamer, TensorRT

Leadership & Product: R&D leadership, mentor/trainer, product flexibility, stakeholder collaboration, project management

PROJECTS

- ***Trackx — Vehicle tracking & telematics (production)***: Led Android client, telemetry protocol, backend ingestion, and OTA, enabling fleet monitoring and diagnostics.
- ***SmartHome — MQTT-based perimeter automation (POC):*** Designed sensor-to-edge architecture using Arduino, Raspberry Pi, and MQTT, reducing manual alerts during POC.
- ***DVR + Telematics in private 5G:*** Integrated multi-camera capture, edge inference, and secure telemetry for low-latency analytics in private 5G environments.

EDUCATION

Bachelor of Technology in Information Science
Jain University, Bangalore
2020