

PUNEETHRADDY M R

Technical Lead

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PR

SUMMARY

- Technical Lead specializing in software development, embedded systems, and ADAS Level 3 automation.
- Proven expertise in leading high-impact projects in fixed network solutions and automated driving technologies at Nokia and Bosch.
- Skilled in system architecture, clean code principles, multi-threading, and data optimization to enhance software performance.
- Experienced in developing high-performance solutions, mentoring teams, and driving innovation in automated driving and telecom technologies.

EXPERIENCE

Technical Specialist

Bosch

05/2022 - Present Bangalore, India

Automated driving assistance Level 3

- Led the development of the **Quick Reaction** feature using **AEB** for **ADAS L3** systems, ensuring a reaction time of **5ms**. This feature is capable of handling both static and dynamically interfering objects on the road.
- Orchestrated **collaboration with onsite teams**, ensuring seamless integration of **Quick Reaction AEB** into the **software pipeline**.
- Worked on a **read-optimized data handling framework** using **HDF5** to improve data access efficiency for automotive datasets.
- Implemented an **Auto-Converter** for upgrading **legacy interface recordings** to the **latest versions**, ensuring seamless data compatibility.
- Took full ownership of **Deterministic Open Loop (DOL)** tool for **automated driving validation**.
- **Driving** a team of 8 Engineers in **AI/ML competency development** while actively learning to **integrate advancements** into current and future projects.

Software Developer

Nokia

06/2016 - 05/2022 Chennai, India

Leading developments in fixed network telecom solutions

- Key contributor to the **architecture design and implementation** of a **high-density vectoring** feature, deployed in a world-first implementation. This feature **doubled** network user density from 192 users to 384 users per system without requiring **substantial additional hardware or new hardware designs**.
- Led **code quality assurance**, conducted **architectural reviews**, and provided **training for new joiners**.
- Developed **feature back-porting** from **advanced releases** to **older versions**, ensuring compatibility.
- Designed and implemented **features for a 48-port standalone box**, optimizing performance and reliability.

KEY ACHIEVEMENTS

High Density Vectoring Feature worlds first deployment - Nokia.

Department top performer award for quick reaction with AEB development - Bosch.

Developed and deployed the Auto-Converter, streamlining ADAS L3 testing efficiency – Bosch.

SKILLS

C++14 STL Multi-threading

Python (Basics)

Design Patterns Clean Code

Code Review OOP

ADAS HDF5 Middleware

Raspberry Pi Linux Git

BAZEL CMake Unit Testing

TDD Debugging

Agile Machine Learning (Basics)

CERTIFICATION

Advanced clean code and code review process -classroom training

EDUCATION

M.Tech in Embedded Systems

Vellore Institute of Technology

Vellore, TN

B.Tech in Electronics and Communication

Basaveshwar Engineering College

Bagalkot, KA