

AJAY THAKUR

Technical Lead | Autonomous Driving

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8, Walchand Bapuji Nagar Mohadi Upnagar Dhule, Maharashtra, India

SUMMARY

Technical professional with 8+ years of experience in automotive software development and embedded systems, expert in AUTOSAR and Autonomous Driving and Deep Learning. Key achievements include achieving high Client Satisfaction (CSAT) scores by delivering tailored embedded software solutions for clients such as Audi, BMW, GM and JLR, and designing/improving ADAS features.

EXPERIENCE

Technical Lead

- KPIT 04/2024 - Present India
- Enhanced system performance by development of streamlined Low-Level Software modules.
 - Experience in maintaining clear and concise documentation, facilitating seamless knowledge transfer and ensuring effective collaboration among team members.
 - Responsible for Task Timing Measurements and CPU Loading.
 - Successfully delivered software solutions within tight deadlines, meeting project milestones and exceeding client expectations.
 - Apply test-driven development principles to ensure high-quality software design and implementation, resulting in robust and reliable automotive systems.

Senior Software Engineer

- KPIT 04/2021 - 04/2024 India
- Design and develop embedded software for automotive Écus, specializing in Classic AUTOSAR and ADAS-Computer Vision for OEMs like Audi, BMW, and GM.
 - Lead development and testing of Perception features like Object Detection, Pedestrian Detection, hazard detection and Monocular Scene Reconstruction.
 - Review software requirements and ensure QAC analysis and requirement traceability.
 - Conduct Functional and Unit Testing, while documenting software changes and design.
 - Configure DCM modules and manage signal, port mapping, and code generation.

Embedded Software Engineer

- L&T Technology Services 04/2018 - 04/2021 India
- Applied expertise in embedded software engineering to develop and deliver high-quality solutions for the automotive industry, specializing in platforms such as Autosar, Cybersecurity, and ADAS.
 - Boosted client satisfaction through designing software solutions meeting industry standards and requirements.
 - Responsible for Autosar COM Stack and development of Dynamic Algorithm.
 - Responsible for the Unit testing and Functional Testing of Algorithms & COM Stack.
 - Handling development for the SAD, CDD of the project.

EDUCATION

- Master of Art in Hindu Studies (Philosophy)
Sri Sri University 08/2021 - 05/2023 Cuttack, India
- Post Graduate Diploma in Embedded System Design
Centre for Development of Advanced Computing
06/2017 - 05/2018 Bengaluru, India

STRENGTHS

- ✓

Project Management

Skilled in managing deadlines, prioritizing tasks, and ensuring project milestones are achieved on time.
- ⚡

Leadership Skills

Proven ability to lead cross-functional teams, mentor engineers, and manage complex projects efficiently.
- ⚡

Problem-Solving & Adaptability

Strong analytical skills to identify and resolve technical challenges, ensuring robust and reliable software.
- 💎

Innovation & Collaboration

Passion for integrating cutting-edge technologies into automotive systems to enhance functionality and performance.

KEY ACHIEVEMENTS

- 🏆

Client Recognition

Achieved high CSAT scores for delivering complex embedded software solutions tailored to client needs, including for Audi, BMW, and GM.
- 💎

Innovation in ADAS

Designed and Implemented ADAS features like object and pedestrian detection, improving system reliability and safety.

SKILLS

Group Title

Embedded C		Autosar	Computer Vision	
Project Management		Cybersecurity		DCM
Deep Learning		Embedded System		ADAS
Gen AI	Git	JIRA	Neural Networks	
OpenCV	PyTorch	TensorFlow		MLops
QAC	C++	LIDAR	AGILE	ONNX
Keras	3D reconstruction			

LANGUAGES

English	Proficient	●●●●●
Marathi	Native	●●●●●
Ahirani	Advanced	●●●●●
Hindi	Proficient	●●●●●

EDUCATION

B.Tech in Electronics & Communication Technology

Department of Technology Shivaji University

08/2013 - 05/2017 Kolhapur, Maharashtra, India

Higher Secondary Certificate (HSC)

Z B Patil College

06/2012 - 05/2013 Dhule, India

Secondary School Certificate (SSC)

Shri Pimpladevi High School

06/2010 - 05/2011 Mohadi, Dhule, Maharashtra, India

CERTIFICATIONS

PyTorch for Deep Learning-Professional Certificate

DeepLearning.AI

The Complete Self-Driving Car Course - Applied Deep Learning

Description: Object Detection, Lane Detection, LIDAR, Deep Learning, RNN, CNN, Nvidia Model, Udacity Simulator etc.

Neural Networks and Deep Learning

Contents: Neural Network & its Type, Algorithms.

Accelerating Deep Learning with GPU

Contents: Hardware Accelerated Deep Learning, Deep Learning in the Cloud, Distributed Deep Learning.

Deep Learning with TensorFlow

Contents: TensorFlow, Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Unsupervised Learning - Autoencoder.

Career Essentials in Generative AI by Microsoft and LinkedIn

Microsoft

Deep Learning Fundamentals

Deep Learning Models - Restricted Boltzmann Machines, Deep Belief Nets, Convolutional Networks, Recurrent Nets, Deep Learning Libraries.

LANGUAGES

Sanskrit

Intermediate ● ● ● ● ●

INTERESTS

★ Reading Books

★ Travelling

🚩 Hackathon Enthusiast

💎 Painting