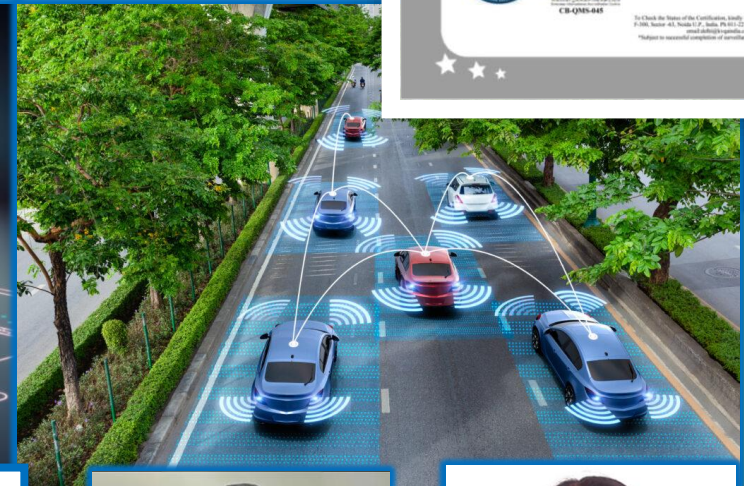


# BAAPD Engineering Solutions PVT. LTD [INDIA] [Introduction]

GSTIN:29AANCB1494K1Z3

Start Date (Incorporation On):-  
10<sup>th</sup> January 2025

We Comply with “ ISO 9001:2015 Quality Management System “ [QMS]  
[Certificate No:KDACQ202503096]



**Contact Details :-** [www.baapdes.com](http://www.baapdes.com)

- **Praveenkumar DESHAMUKH** [Founder, CEO & Customer Interface]
- **Bhagyashree DESHAMUKH** [Co-Founder, Director & Operational Management]

**Please scan This QR code for Complete Contact details** →

- **Email:-** [Praveenkumar.deshamukh@baapdes.com](mailto:Praveenkumar.deshamukh@baapdes.com) / [Bhagyashree.deshamukh@baapdes.com](mailto:Bhagyashree.deshamukh@baapdes.com)



**Praveenkumar Deshamukh**  
(Founder & CEO)



**Bhagyashree Deshamukh**  
(Co-Founder & Director)





## Types of Solutions & Services we offer in Automotive Industry:-

**Automotive  
ECU's**  
(ICE & EV's)

Infotainment  
System (IVI)

IPC(Cluster),  
HUD

Telematics,  
ADAS, AD

EV-  
BMS,MCU,  
TCU,

EV-Charging,  
VCU



**Certification Management & Precertification Test Support- IVI CarPlay & Android Auto Projection Technology.**

**Testing**



**Test Management, System Testing (SYS-T), SW Testing (SW-T) & SW Integration Test (SWI-T)**



**Experts-Staffing services & Test Drives across India & Europe.**

[Defect Management, Technical Project Management, Component Management, Test Engineers]

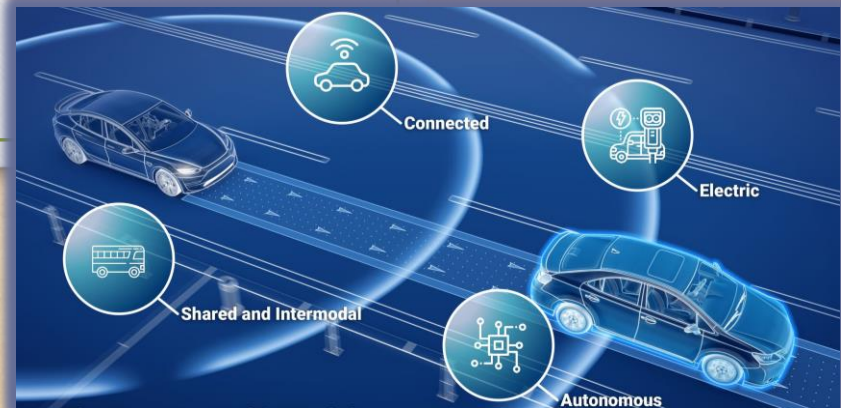


**Software Development solutions for IVI & Connected Car systems**



**Exploring Other Areas:-**

**Bluetooth Interoperability Test (BT-IOP), Test Automation,  
Electric Vehicles(EV ECU's) , AI (artificial intelligence) Introduction in Testing,  
Web Designing & Testing, System Maintenance, Training.... Etc**





# ❖ Pre-Certification :— Pre-Test Services for Apple-CarPlay & Google-Android Auto Projection system in Infotainment system & Exploring USB-IF, RED, FMVSS & KMVSS Certifications.

- Pre-Certification Testing Minimizes the Delays & Added Costs before 3PL Audit for Getting Certification from Apple and Google.

## Wireless CarPlay & Android Auto

Connecting your iPhone or Android device is a breeze. Enjoy hands-free calls, easy navigation, and music, and stay connected without any distractions while driving.



### Certification Manager-CM

- Planning
- Coordinating
- Executing
- Presenting
- Negotiating with Google & Apple

### Pre-Certification tester-PCT

- Alignment with CM
- Executing Pre-test Suits on Test Bench & Vehicle.
- Report Consolidation, Issues logging & Verification.



## Wireless + Wired





# Testing Services (SYS-T),(SW-T), (SWI-T) , Defect Management & BT-IOP Test For – IVI & Connected Component

## System Test & Software Testing Service for ECUs V&V.

- Test Bench , Test Rig & In vehicle Test Activities,
  - TC's Design , Review & Execution
  - Issues Reporting with Evidences (Logs, Videos)
  - Issues reproduction & Verification .

## Test Drive support (Europe & India)

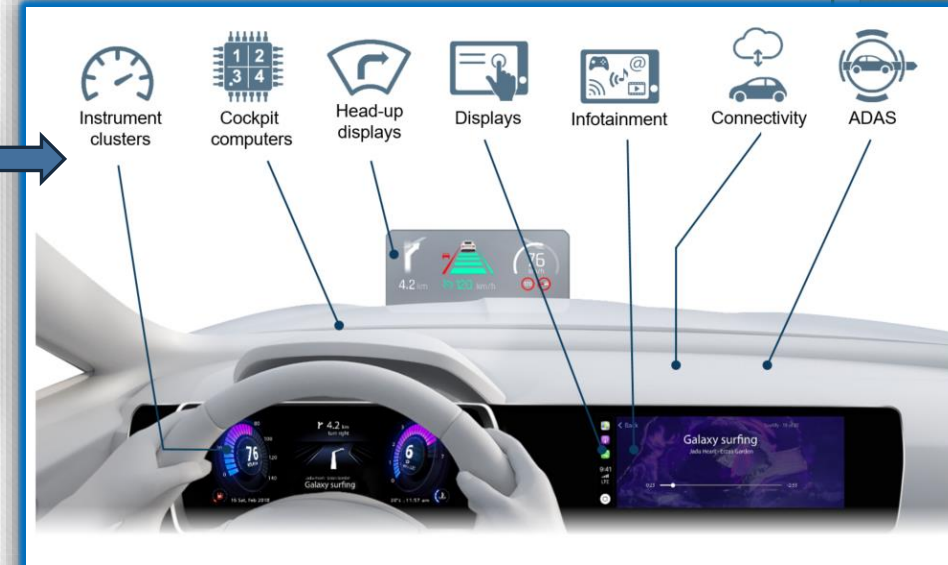
- Cross Country Border crossing locations
- Mountain Hills, Tunnels, Flyovers..Etc

## Staffing Service [Defect Management, Technical Management ..etc]

- Experts Services by Consulting Customers to meet their requirements.
  - Defect Tracking, Monitoring, Reprioritizing
  - Initial Analysis & Assigning respective Domains
  - Report Consolidation & Presentation.

## Inter Operability Test (BT-IOP)

- IVI System Compatibility and communication Check with Many different Mobile Brands & Operating system devices .





# Software Solutions- Development & Test Automation

## For – IVI & Connected Component

- **Software Development**

- Infotainment system
  - Android based Development support for IVI Modules.
  - HMI Development
- Software Solution Provider for Connected Car ECU's

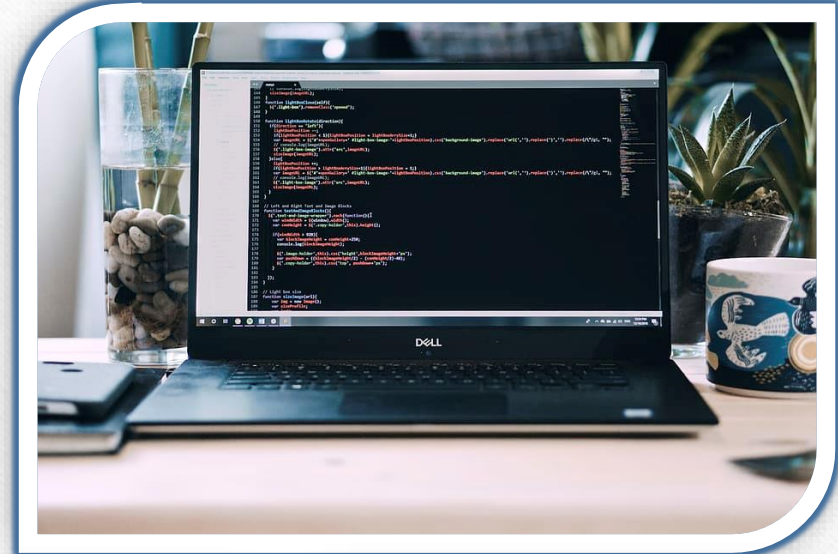
- **Test Automation**

- Automating the Test Cases for Test Run

- **Exploring Other Areas :-**

- **EV ECU Validation:-**

- MCU-Motor Control Unit.
- BMS-Battery Management System.
- Onboard Charging system
- TCU, VCU.. etc
- AI Introduction in Testing.
- Web Designing & Testing.
- System Maintenance, Training.







# International Experts

Industry Domain Work Experiences







# Praveenkumar *DESHAMUKH* (Founder – CEO & CFO)

- **International Work Experience of 14+years in Automotive Testing Domain.**
  - **Roles** Certification Manager, Component Manager, Technical Project Manager, Test Team Manager, Subject Matter Expert, Test Lead ( INDIA, GERMANY , USA & SWEDEN).
- **Holding Industry Standard Professional Certifications.**
  - Google Project Management Certification (240hrs) authorized from Google.
  - ISTQB Agile Extension Certification , ISTQB Foundation level Software testing Certification.
  - Functional Safety According to ISO 26262-Crash Course, Scrum Product Owner.
  - Startup India Learning Program
- **Class- B German Driving License from Germany (2014 to 2034) + INDIAN License for Car.**
  - Performed Many Test drives across **EU Countries, India & USA.**
- **Skills & Tools:-**
  - Project & People - management, Test Deliverables, V- Model, Water Fall & Agile Way of Working in SAFe framework,
  - Protocol knowledge on MOST, Flex Ray, LIN, CAN, Ethernet with C# Language Automation .
- **Languages known (Speaking & Writing)**
  - Kannada (Fluent), English & Hindi (Professional) + German Language (Intermediate B1 Level)
- **Received Many Awards from Each Organization on Achieving Organization & project Goals during this Professional Career**



Customer Interface (IVI , Cluster, HUD, Telematics, ADAS )



Timeline	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
<div><div><div>Praveenkumar Deshamukh</div><div>[14yrs Exp]</div><div>+91-9972685140</div><div>pdeshamukh413@gmail.com</div><div>Responsibility</div></div><div></div></div>	<div><div><div><div>✓ Infotainment system V&amp;V Test Activities.</div><div>✓ Requirement analysis, Defect Logging &amp; reproduction at Test bench and In-Car.</div><div>✓ Test drive performed across Europe &amp; India</div><div>✓ Automating TC's, Test Suits in C# language Visual Studio.</div><div>✓ Worked 1 year in Germany Bosh for Test support .</div><div>✓ Holding Class-B German Driving license.</div></div></div></div>					<div><div><div>✓ BMW Navigation system Test activities.</div><div>✓ GM Next Gen Android infotainment system test activities SME Lead Role , Defect Management Role.</div><div>✓ Holding USA B1/B2 VISA</div><div>✓ Worked in USA for Month at Customer location during SOP for Test activities deliverables.</div></div></div>		<div><div><div>✓ ADAS System Acceptance Test Activities at OEM</div><div>✓ As a TL responsible for - Building System Test team with End to End responsibility of test activities for in house infotainment system</div></div></div>		<div><div><div>✓ Certifications for Apple &amp; Google Projection system</div><div>✓ Car Play Wired &amp; Wireless Certification Android Auto Wired &amp; Wireless Certifications.</div><div>✓ End to End Responsible - Planning, Coordination, Execution, Negotiation, Risk Mitigations, Presentation to Higher management .</div></div></div>	<div><div><div>✓ Technical Project Manager for IVI VW Test Vehicles.</div><div>✓ Component Manager for Infotainment system responsible for SDLC, HWDLC, Test Activities, Certifications.</div><div>✓ Project Management</div></div></div>	<div><div><div>✓ System Test team responsible for infotainment system V&amp;V Activities.</div><div>✓ Certification activities responsible</div><div>✓ People &amp; Project Management</div></div></div>			
Organization	Bosch - India & Germany		HARMAN ODC, HARMAN International -HCS			Volvo Cars -CEVT			Bosch Germany [Capgemini Gmbh]		IAV-VW Germany		Marelli -India		
Roles	Software Engineer & Senior Test Engineer		Senior Test Engineer, SME Lead			Acceptance Tester-, Test Team Lead			Certification Manager [PO /Adv.Consultant]		Technical Project Manager, Component Manager		Test Team & Certification - Manager		
Customer	GM		BMW & GM			Volvo Cars, Geely- Lynk & Co			Renault-Nissan		Volkswagen		Stellantis		
Location	INDIA GERMANY		INDIA USA			Sweden			GERMANY		INDIA				
Certifications & Achievements	<div><div><div><div></div><div><div><div>Google Project Management Certification [PMP] [ Six Courses- 240hrs Total ]</div><div>Scrum Product Owner Certified –Udemy</div><div>Agile Tester extension Certification – ISTQB – ITB</div><div>ISTQB Foundation Level Certification in Software testing –ITB</div><div>Functional Safety According to ISO Crash course at Udemy</div></div></div></div><div><div><div></div><div><div><div>Marelli Wow Award from Area Manager on setting up test team in Scrum with Agile Practices. 15Th July 2024.</div><div>Renault Customer &amp; Bosch Employer Appreciation Awards on Multiple Certification deliveries in 2020, 2021 &amp; 2022.</div><div>Be Brilliant Take a Bow Award from HARMAN International on Customer Ticket analysis, Reaching Milestone of SW SOP-2017.</div><div>Extraordinary Effort to deliver Project award from VP &amp; GM of Harman USA -2017.</div><div>Excellent Performer award from GM Customer at USA on Defect Manager Role.</div><div>Best Performer in Continuous 3 years in Bosch received from Group manager India &amp; Germany.[Joint Test drives, automation tools].</div></div></div></div><div><div><div></div><div><div><div>Invest India</div><div>National Investment Promotion Agency</div><div>Praveenkumar Deshamukh</div><div>Successful completion of the Intermedia Learning Program</div><div>ISTQB Foundation Level</div><div>Google Project Management Certificate</div></div></div></div></div></div></div></div>														



# Bhagyashree DESHAMUKH [Co-Founder & Director]

- **International Culture , Travel & Professional work Experience from INDIA, Germany & Sweden (12+ years ).**

[Roles:- **Director**, Test Engineer ]

- **Holding Industry Standard Professional Certifications.**

- Artificial intelligence A-Z 2023: Build an AI with ChatGPT4 in Germany.
- Advanced Microsoft Excel Certification in Germany
- Holding 4+ years of Infotainment System Test Work experience.
- Software testing Certification from Qspider in India.

- **Spoken Languages**

- English (Fluent)
- Kannada (Mother Tongue)
- Hindi (Fluent)
- German (A2 Level)



Operational & HR Responsible- People Management



## ❑ Test Engineer (IVI & ADAS)

➤ **Infotainment system Test domain Expert holding 3+years of Work Experience-INDIA [Roles:- Test Engineer & Senior ]**

➤ **Test Expertise [Skills & Tools]**

- IVI System Test V&V Activities, Test Automation , Pre- Certification test for CarPlay & Android Auto.
- ADAS System Test V&V Activities with good hold on Short Range Radar (SRR), Advanced Radar sensor (ARS)
- Adept at ADAS testing, including evaluation of Rear View Camera (RVC), Adaptive Cruise Control (ACC), ultrasonic sensors, and static/dynamic guidelines.
- Having Core knowledge in Black Box Testing, Functional Testing, Integration Testing, System Testing, and Regression testing.
- Expert in Doors, Jira, Confluence, CAN Box , CANALYZER, Tera Term, CANOe, PCAN, Renesas Debugger .
- Experienced in reading and clearing Diagnostic Trouble Codes (DTCs), Data Identifiers (DIDs), and
- Handling Service IDs and Negative Response Codes (NRCs) for precise issue resolution.
- Expertise in validating DTC types, such as short circuits and open circuits.
- With expertise in profiles such as GAP, SAP, HFP, A2DP, AVRCP, PBAP, BIP, and MAP.

➤ **Holding Industry Standard Professional Certifications.**

- ISTQB Foundation level software testing Certification
- Cyber Security Test Certification



System Test ,Software Test & Pre-Certification Test Responsible (IVI , Cluster, HUD,)



## ❑ Test Engineer (Electric Vehicles)

### ➤ EV Vehicle ECU's domain Test Expert holding 5+years of Work Experience-INDIA

[Roles:- Test Engineer & Senior ]

### ➤ Test Expertise [Skills & Tools]

- ✓ **Expertise:-** MATLAB/Simulink for lithium-ion battery algorithm development, Testing, and validation, specializing in **SOC/SOH estimation, protection logic design, real-time battery diagnostics**, and **MIL, SIL, and PIL validation** for embedded code generation.
- ✓ **Tools & Skills:** Vector CANoe, CAPL scripting for ADAS design and validation, test harness development, requirements management, and innovative solutions in the **EV** and **energy storage** domains.

### ➤ Core Competencies Battery Management Systems:

- ✓ • **SOC/SOH estimation** algorithms, **Coulomb counting**, **OCV modelling**, fault detection, protection circuit design, and lithium-ion battery diagnostics.
- ✓ **Embedded Systems & Tools:**
  - ✓ • **MATLAB, Simulink, State flow, CANoe, CAPL scripting**, HIL systems, **Embedded C**, basic **Python**, **MIL, SIL, and PIL validation**. **Testing & Validation:**
- ✓ • Component-level and system-level testing using **MATLAB Test Manager** and HIL setups.
- ✓ • Requirements creation and management using **MATLAB Requirements Manager**.
- ✓ **Project Management:** • Daily activity tracking using version control tools like **Git** and reporting in **Agile**-based scrum meetings
- ✓ Lithium-Ion Cell Modelling, BMS Protection, Throttle Modelling in Simulink for Automotive Applications



System Test ,Software Test Responsible (EV- BMS, Charging ECU's)



## ❑ Test Manager (IVI , Cluster & HUD)

- **International Work Experience of 13+ years in Automotive IVI-System Testing Domain from INDIA & GERMANY (Wolfsburg) .**



[Roles:- **Test Manager , Pre-Certification Test Lead & System Testing Expert** ]

- **Test Expertise [Skills & Tools]**

- Expert in Apple CarPlay pre-certification, MFi testing, Android Auto PCTS testing.
- Location Performance, Drive tests in EU [Holding **Class- B German Car Driving license**].
- Infotainment system Testing-HMI,Tuner,Multimedia modules testing, Projection modules Testing.
- Tools Worked on - ATS, Facets, PCTS verifier, CAN, Canoe, KPM, JIRA, HPALM, RTC, Silk Central, Filezilla, Diagnostics Engineering Tool (DET),

ODIS, Wireshark, Sniffer, FTP, Sentinel(Canoe tool), Test Management System (TMS) also company specific/proprietary tool

Certification Manager & Test Deliverables responsible (IVI , Cluster, HUD,)



“ Thank you!  
Will be looking forward to it,,,”



*Change is a Key for Success*

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