



# Brindha Palaniswamy

Embedded Engineer

## SUMMARY

Over 13 years of automotive industry expertise, spanning supplier and OEM roles. Extensive experience in embedded system software design, development, and diagnostics authoring, including 3.5 years in leadership positions. Proficient in AUTOSAR software development for diagnostics communication protocols such as GMLAN, UDS, and KWP2000. Skilled in CAN testing tools and simulation platforms, complemented by a SAFE SCRUM MASTER Certification, showcasing strong project management and customer requirement translation capabilities.

## WORK EXPERIENCE

Senior Technical Test Engineer

03/2025 - Present

Volvo Cars - Gothenburg

- Performed component-level and in-vehicle Basetech diagnostics and Software Download on Connectivity ECUs for Volvo Cars Project.
- Executed Sanity, Module Acceptance, Regression, Stability, and Retest cycles for features including SWDL, Gateway SWDL, Diagnostics, Guided Diagnostics and Network Management.
- Conducted gateway functionality testing between Connectivity ECUs and master nodes (SRS, ASDM, DIM) using external OBD tools across multiple environments (RIG, BOXCAR, Vehicle).
- Reviewed supplier test procedures and test results to ensure compliance and quality.
- Performed issue troubleshooting in customer cars, capturing and analyzing relevant system logs.
- Analyzed diagnostics, software download, and power management logs for ECU fault detection and traceability.
- Handling CI result analysis, supplier coordination, and test strategy definition
- Acted as Software Responsible

## CONTACT

✉ brindhaskc@gmail.com

☎ +46 708597671

📍 Tamburigatan 5, Frolunda  
42151 Gothenburg, Sweden

SKILLS

- AUTOSAR
- Python
- Diagnostics
- ISO standards
- Flashing
- Aftersales
- C Coding
- Communication protocols
- Configuration Management
- SCRUM MASTER Certification
- Eclipse
- Embedded C
- IBM Cognos
- Clear Case
- IBM Rational ClearQuest
- Integration testing
- MISRA
- Visio
- Perl
- Software Development Life Cycle (SDLC)
- Software development
- Software Management
- Unit testing
- Embedded system
- Vehicle diagnostic

LANGUAGES

English - Expert

German - Intermediate

Swedish - Beginner

Tamil - Native

AFTERSALES SUPPORT FOR FLASHING AND-CODING10/2019 - 02/2024

Daimler-Mercedes Benz Research and Development India  
- Bangalore

- Monitored and analyzed XSF system issues, driving efficient resolutions for customer support team
- Conducted in-depth investigations using Daimler systems, enhancing issue resolution accuracy.
- Collaborated with 3rd level support to gather critical information, streamlining problem-solving processes.
- Developed Flash files to optimize workshop operations and ensure seamless system functionality.
- Delivered prompt solutions, significantly improving customer satisfaction and operational efficiency

Diagnostic Data Author07/2016 - 10/2019  
DAIMLER - Bangalore

- Crafted OEM diagnostics specifications for passenger car ECUs, ensuring ISO standards compliance like CDD, ODX and other supported files.
- Utilized plugins to validate specifications, guaranteeing adherence to Daimler guidelines.
- Collaborated with stakeholders to analyze and rectify documentation errors for seamless integration.
- Conducted verification of Candela Studio validation tool, reporting deviations and managing tracking requests.
- Enhanced diagnostics validation efficiency with DXL scripts, streamlining processes.

Senior Software Engineer07/2012 - 09/2016  
Robert Bosch Engineering and Business Solutions Limited  
- Coimbatore

- Developed diagnostics software compliant with AUTOSAR using GMLAN, UDS, and KWP2000 protocols.
- Implemented MISRA-compliant C code and conducted thorough technical reviews.
- Executed protocol testing with CANalyser, CANoe, and SamTec tools.
- Created Perl scripts for efficient unit and integration testing.
- Led team in bug fixing and module integration using Clear Case.

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## EDUCATION

Bachelor of Engineering

2012

Sri Krishna College of Engineering and Technology - Coimbatore

Electronics and Communication

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## TOOLS

SYSTEM WEAVER, CARWEAVER, JIRA, VISIO, VCATS, XENTRY, IBM, JENKINS, KANBAN, DOORS, CANalyser/CANoe, CANDela, CANDiva, Labcar, CANDela Studio, ODX Studio, Eclipse, Flash file viewer, DIALOG, IBM Cognos, ALOA, AQUA, DOORS

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## CERTIFICATIONS

SCRUM MASTER

PRODUCT OWNER

GERMAN A1

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## HOBBIES

Traveling, Cooking, Mental Wellness