MANOJ M

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CAREER OBJECTIVE:

Passionate Engineer with 4.8 experience in vehicle brakes and ADAS development & testing in a challenging position and to come out with a feat full solution, along with better technical and decision-making skills with ground-breaking ideas in a passionate way.

AREA OF EXPOSURE:

- Responsible for the ADAS and Chassis braking safety system in passenger and LCV sector.
- Executing a complete Product life cycle and Diagnosis for connected car, ADAS and Chassis braking safety systems.
- Responsible for Test method derivation, Logic verification & failure mode identification for ADAS under Indian road scenario based on DFMEA & various standard requirements.
- Responsible for braking system installation & testing as per various standard (AIS, IS, ISO & SAE...etc.) requirement & ARAI Certification
- Responsible for interaction and sourcing of system components and valiadting from suppliers
- Extending Support for prototype vehicle build and production vehicle issue rectifications.
- Responsible for robust development and validation of ADAS systems in various real time scenarios in various weather conditions, providing a closed – loop feedback for vehicle improvement.
- Responsible for functional logic & failure mode identification with respect to cloud services, Mobile app interface & Network related issues for connected Car's technology
- Responsible for vehicle level logic developments, testing for ADAS and braking s/w and h/w modules such as ABS, ESP,TCS, ECU's under RWUP condition & vehicle functional safety requirement based on IS 15986 & 11852 standard requirement
- Responsible for troubleshooting vehicle level braking components during development trials.
- Responsible for providing logic requirements for software and hardware modules, user configurations and final release calibration.
- Responsible for calibration and development of Regen braking in EV vehicles
- Test cases specific to Indian traffic for ADAS testing in SiL & HiL & intime test inputs to COE for ADAS calibration.

TECHNICAL SKILLS:

- Vehicle Handling for brakes and ADAS development and validation trials.
- Analysis & handling in vehicle data, instruments using LINK, EEP12, CAN Analyzer, VSPY, Influx, Vbox, Ipertronik & SCAN tools
- Immense knowledge on vehicle braking system testing (Brakes, ABS, ESP, TCS, BLD, TMS & ECUs)
- Knowledge on vehicle ADAS system testing (AEB, FCW, DDD, ACC, LDW, LKA, TJA, Park Assist, Blind Spot Detection, Rear Cross Traffic Alert, Traffic Signal & Sign Board Recognition)
- Knowledge on vehicle level braking and ADAS architecture study

PROJECTS HANDLED:

- ADAS – XUV 700 and other benchmarking vehicles - MG, Volvo and Mercedes
- Brake system testing – XUV 300, XUV 500, XUV 700, THAR, Scorpio, Bolero, Marazzo, KUV 100 (Gasoline and EV), ATOM EV and other benchmarking EV's and Gasoline vehicles – Ford, Toyota, Hyundai, Maruti Suzuki, Jeep and Skoda.
- 4WD system testing – Thar, Jeep wrangler.

ROLES & RESPONSIBILITIES:

- Performing and validating the software and hardware maturity for brake system, slip control and ADAS system under RWUP test conditions and pre defined test conditions.
- DVP preparation based on the Project scope, PDB, DFMEA & IMCR activity
- Conducting Pre-homologation trails for Various brakes, slip control and AD system in vehicle level to ensure the standard requirements
- Analyzing & trouble shooting the vehicle level issue using UDS protocols.
- Preparing the vehicle level acceptance checklist for forecasting project, the root cause analysis and why- why analysis report for DTCs logged in the durability/RWUP/fleet vehicles.
- Effective time plan preparation to meet the project timeline with DVP-R & technical sign-off documents
- Test case identification, validation of various brake system, slip control components under interference with various system & weather, terrain conditions (Summer & winter trail evaluation) for both Domestic and export market.
- AD and Connected Cars feature & function requirements detailing, Test case generation-based interface with other system logics
- Failure mode identification for AD Cars and connected cars under interference with other system & analysis the critical issues in cloud, Network & mobile application under RWUP condition (GHAT, Semi-urban & rural).
- Identification of new test procedure for new technologies (ACC, Blind view monitoring, wireless charging...etc.) with reference to benchmark vehicles, test standards.

EXPERIENCE PATH:

Mahindra & Mahindra Pvt Ltd (MRV-Chennai, Tamil Nadu, India)

- Vehicle Development & Validation: Engineer (Experience: 19th Sep 2019 – Till date

Ashok Leyland (R&D VVC - Chennai, Tamil Nadu, India)

- New Product Development Engineer – NPQE (Experience: Jan 2019 – Sep 2019)

Jayem Automotives Pvt Ltd (R&D – Coimbatore, Tamil Nadu, India)

- Vehicle & Engine Testing Engineer (Experience: July 2017 – Sep 2018)

EDUCATIONAL QUALIFICATION:

Qualification	Board / University	School / College	Year	Percentage
BE (Automobile)	Anna University	KCT, Coimbatore	2017	70 %
DAE	DOTE	MPTI, Namakkal	2014	96%
SSLC	State	Kurinji Hr.Sec School, Namakkal	2010	77 %

ACHIEVEMENTS SUMMARY:

- Test procedure & Methodology derivation for brake system, slip control system, terrain response system & ADAS. Etc
- Mahindra Rise award for ADAS, brake system and slip control system validation & development activity by M&M
- Received an award for Test method development, ADAS inhouse test dummy preparations & ADAS test case development based on Indian Road use case
- Received recognition & award for Mileage accumulation of test vehicles from Mahindra
- Received recognition for Mileage accumulation of test vehicles from Ashok Leyland

PERSONAL PROFILE:

Date Of Birth : 01-07-1995
Nationality : Indian
Martial Status :Unmarried
Languages Known : English, Hindi & Tamil

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned.

Place : Chennai **(Manoj M)**