

# AAYUSH RAJ

## Senior System Engineer

Senior System Engineer at BlueBinaries Engineering India Pvt. Ltd. with more than 5+ years of experience in Embedded Software Testing in Automotive Infotainment/EPS domain.

### PROFESSIONAL SUMMARY:

- A customer oriented, multitasking professional with excellent analytical and logical skills.
- Presently associated with BlueBinaries Engineering India Pvt. Ltd. and working at Nexteer Automotive.
- Worked on Development, launching as well as maintenance phase of Product life cycle of Infotainment/EPS system.
- Experience on working with Vector Tools (CANALYZER & DDT2000), DOORS. Requirement Analysis, Test Planning & Execution.
- Having exposure on various testing methodologies– Agile, Waterfall, Iterative etc.
- Experience of testing different wireless technologies like Bluetooth and Wireless Android auto, CarPlay etc.
- Tested different multimedia/connectivity modules of infotainment system like Android Auto, CarPlay, CAN message set, Power Management, diagnostics, Anti-theft, Fascia-SWRC, Navigation, Mirror-Link FM/AM/DAB, I-Pod, Media.
- Used Red-mine, Jira, SBM (Bug tracking tools) to co-ordinate with developers and managers to report and track bugs/issues fix, its verification and closer.
- Reproduced field issue with test bench.
- Resolved technical issues related to test environment and setup.



### WORK EXPERIENCE

2021-08 -  
Current

#### Senior Systems Engineer

*BlueBinaries Engineering and Solutions Pvt Ltd,  
Bangalore*

**Description:** The project involves the functional validation of the Electric Power Steering (EPS) ECU. It involves the analysis of system, software and control module requirements and test procedure creation for functional, regression, fuzz, stress and acceptance test. The ECU validation is performed both in dSPACE HIL and manual bench environment. The test sequences for test automation are developed using Automation



### Contact

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Desk libraries. Manual testing is performed using CANoe/Control Desk.

**Project Name: Ford S650 Validation**

- **Project Description:** Goal is to perform functional validation requirements for EPS features (like Battery Voltage, States and modes, HwTq, HwAg, Motor Current Motor Angle, etc.) on HIL/ System Bench.

**Roles and Responsibilities:**

- Requirement analysis and requirement flow down for HIL/System.
- Estimation and planning.
- Test Plan Execution.
- Validation of requirements on HIL and System bench.
- Validating functional requirements for EPS features (like Battery Voltage, HwTq, etc.) on HIL/ System Bench.

**Project Name: GM Bt1xx Validation**

- **Project Description:** Goal is to perform functional validation requirements for EPS features (like Battery Voltage, States and modes, HwTq, HwAg, Motor Current Motor Angle, etc.) on HIL/ System Bench.

**Roles and Responsibilities:**

- Requirement analysis and requirement flow down for HIL/System.
- Estimation and planning.
- Test Plan Execution.
- Validation of requirements on HIL and System bench.
- Validating functional requirements for EPS features (like Battery Voltage, HwTq, etc.) on HIL/ System Bench.

**Project Name: GM 31xx Validation**

- **Project Description:** Goal is to perform functional validation requirements for EPS features (like Battery Voltage, States and



**Skills**

- DOORS, DSPACE, CANALYZER, DDT2000, SFE Broadcaster, Soderia Bluetooth Air sniffer, BPA 600



Very Good

- Jira, SBM, Red-mine, etc.



Excellent

- C++, Python.



Good

modes, HwTq, HwAg, Motor Current Motor Angle, etc.) on HIL/ System Bench.

**Roles and Responsibilities:**

- Requirement analysis and requirement flow down for HIL/System.
- Estimation and planning.
- Test Plan Execution.
- Validation of requirements on HIL and System bench.
- Validating functional requirements for EPS features (like Battery Voltage, HwTq, etc.) on HIL/ System Bench.

2018-11 -  
2021-07

**Senior Quality Engineer**

*Renault, Technology and Business Center India, Chennai*

Worked as Engineer at Renault Nissan Technology & Business Center India Pvt. Ltd. (**RNTBCI**) through "**Altran Technologies India Pvt. Ltd** (November 2018 - July 2021).

**R0-20:**

- Single handedly managed full project & got appreciation for handling R0-20 radio
- Validated all features of this project i.e.
- CAN-message set, Wireless Charging, Back-light, External-Temperature, Bluetooth, Media, FM/AM/DAB, etc.
- Verification and tracking of Bugs and its closure
- Co-ordination with TCR (HQ of Renault) and supplier
- Used tool like Soderia Bluetooth sniffer, CANALYZER, SBM, etc.

**AIVI, MM2014, ULC, R0-15 & R0-13:**

- Worked simultaneously on multiple projects such as MM2014, AIVI, ULC, R0-15 & R0-13
- Worked on various features like Wireless charging, AVM, Bluetooth, Android Auto,
- CarPlay, R&Go, USB, FM/AM/DAB, etc.
- Consistently appreciated by Altran Technologies India Pvt. Ltd.

- Ltd and RNTBCI for taking up additional responsibilities.

2012-01 -  
2018-10

## Engineer

*Motrex Automotive India Pvt. Ltd, Delhi*

### Projects:

- Hyundai Creta
- Hyundai Santafe
- Hyundai i20
- Hyundai i20elite
- Hyundai Verna
- KIA Sportage



## EDUCATION

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2012-07 -  
2016-05

## B. Tech: Computer Science Engineering

*Bharath University - Chennai, TN*

2011-03 -  
2012-05

## 12th

*B.S.E - Patna, BR*

2009-04 -  
2010-03

## 10th

*B.S.E.B - Patna, BR*



## ACHIEVEMENTS AND AWARDS

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- Got "GM Team Award" from RNTBCI for best effort to work as a team and achieving milestones in spite of hurdles & effective validation strategy & Quality deliverables.
- Got "Team Award" from Nexteer Automotive for best effort to work as a team and achieving milestones in spite of hurdles & effective validation strategy & Quality deliverables.