

J PAVAN KISHORE REDDY – EE Control Architect

I have accumulated over 2.5 years of experience in the automotive industry, specifically focusing on the development of passenger electric vehicles. I had an opportunity to work across multiple OEMs, gaining valuable insights into their operations and processes from a broader perspective. My expertise extends to the intricate workings of Electronic Control Units (ECUs) in high-end electric vehicles, offering a concise understanding of their fundamental principles. During my tenure, I had gained practical experience with tools such as Vector CANoe, CANalyser and JIRA. My role also involved facilitating effective coordination between testing teams and multiple ECU suppliers, streamlining the process of identifying and resolving software bugs within ECUs.



EMPLOYMENT HISTORY

- **ALTEN India Ltd.** – Aug/2024 to Till Date
Projects : Stellantis
- **TATA Technologies Limited** – June/2022 to June/2024
Projects : VinFast LLC, Bollinger Motors, TATA Motors

Technical Skills/Tools

- Communication Protocols: **CAN , LIN , Ethernet**
- Automotive Standards : **ISO 26262, ISO 6469-3, AIS 038**
- Testing tools : **Vector CANoe, CANalyser, CANdb++, IPeMotion**
- Flashing tools : **vFlash, eMIDAS, PCAN**
- Tracking tools : **PULSE, JIRA, JAMA**
- PLM tools : **ENOVIA, Team Center, OSACA**
- Work environment: **Agile, Waterfall, V cycle, ASPICE**

Contact Details

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Education HISTORY

Education	Specialization	College
B.Tech	Electronics and Communication	PES University, Bangalore
Higher Secondary	Physics and Mathematics	BIPU Collage, Ballari
Secondary School	Physics and Mathematics	SNRP School, Ballari

Trainings and certifications:

- ‘Introducing to New Generation Energy Vehicles’ - iGETIT
- 'Automotive communication technologies' from Vector India.
- ‘ISO 26262 - Functional Safety for Road Vehicles’ in Udemy
- ‘Global trends and advancements in ADAS’ – TTL TechVersity
- ‘Energy Storage Systems fundamentals and BMS’ - iGETIT

Work experience and Project details

TATA Technologies Limited, Pune

Project 1: VinFast Auto LLC, Vietnam(VF9, VF8)

- Deployed at Client location in **Hai Phong, Vietnam** for a period of 8 months as a part of Integration Team
- I collaborated within the Integration Testing team to thoroughly **test ECU softwares**, **identifying** and **troubleshooting issues** and **bugs**. I also coordinated with **Component Owners** and **suppliers** of the respective ECUs to ensure timely resolution of issues, get updated softwares as per new requirements, and adherence to **project timelines**.
- I also had assigned for **tracking feature implementation status** across multiple **ECUs**, ensuring that all the features are integrated into the software and aligned with **program milestones**.
- Also kept a record for tracking the implementation of features in both master and slave ECUs

Project 2: Bollinger Motors, USA (Bollinger B4)

- Drafted initial Features list based on the requirements obtained from the Client, discussed with clients to finilize the E&E functions and features that are going into the vehicles, also aligned with **module leads** and **component owners** to assign features to respective responsible ECUs as a master and slave ECUs
- Created all features into the **PULSE** and then cascaded them to respective component/Module owners.
- Created Dashboard to each of the specific ECUs to track the **progress of implementation** of those **features** in the Software
- Maintained **trackers** and **dashboards** to ensure effective monitoring of work progression

Work experience and Project details

Project 3: TATA Motors Limited, INDIA (Curvv.EV, Harrier.EV)

- Deployed at Client location in **Pimpri, Maharashtra** for a period of 8 months as a part of Battery Management System Testing Team where I was responsible to **test and validate** the **inhouse BMS SW** on the BMS HW of the new Supplier including modifications in the wiring harness.
- Alongside explored different **Fast Charging Strategies** to implement in in-house **BMS ASW**(application software)
- I was also tasked with **testing** various **BMS functions** at the **vehicle level** with the BMS software provided by the supplier. Additionally, I coordinated with the supplier to **calibrate the BMS**.
- Took **logs** from the **vehicle** and studied them to verify the implementation of various strategies particularly SOP, Cell Balancing, SoC.
- Created **DBC file** for configuring and interpreting BMS data on the CAN bus
- Compiled all the **BMS Signals** of all projects of TATA Motors in **CAN** for effective monitoring and effortless implementation in future projects

Extracurricular Activites :

Active **volunteer** with the **Tata Sustainability Group (TSG)** as part of the **Disaster Management Team**

ALTEN INDIA Ltd., Bangalore

Project: Stellantis (PSA Group)

- Contributing to the design and development of the **zonal-based EE architecture** for Stellantis, known as **STLA_Brain**.
- Transitioning from a **domain-central architecture** to a **zonal architecture** by modifying existing messages/signals and introducing new ones.
- Developing messages and **signals** for the **ADAS** and **Connectivity** domains based on functional inputs from the client.
- Involved in creating **MQTT messaging requests** for wireless data transfer from the **vehicle to the cloud**, adhering to **CCC** (Connected Cars Consortium) standards to comply with **EURO 7 regulations**, including **OBM** (for ICE), **OBFCM** (for Hybrids) and **Battery Durability** (for EVs) data