

## Education

---

2010-14      M.S RAMAIAH INSTITUTE OF TECHNOLOGY, *Bengaluru*  
*Bachelor of Engineering, Electronics and Communications*  
*GPA: 9.35/10.0*

## Experience

---

Seasoned software developer with nearly **10 years** of experience, specializing in building automotive security and diagnostic systems.

Proven expertise in:

- Leading teams and developing greenfield projects across **classic and adaptive** platforms.
- Collaborating effectively with stakeholders in European and Japanese locations.
- Delivering end-to-end software solutions throughout the entire Software Development Life Cycle (SDLC).

Strong background in process compliance, including ASPICE, DRBFM, FMEA standards and Agile methodologies.

**Languages:** C, C++11/C++14, Python, SQL

**Technologies and Tools:** IBM Doors, Enterprise Architect, Linux, Astree, Polyspace, Valgrind, Docs-as-code, MySQL

**Version control:** Git, Azure DevOps, Jenkins CI/CD

---

**Technical Manager** (August 2024 - )

**KPIT** - Bengaluru

- Working as solution architect in Virtualization topics.

**Lead Engineer / Specialist** (June 2021 - July 2024)

**Bosch Global Software Technologies - Bengaluru**

- Lead engineer working in **adaptive AUTOSAR security** topics.
- Implemented adaptive SecOC (Secure Onboard Communication) module from scratch.
  - Co-architected the design and its underlying communications with other modules for VRTE stack
  - Solution was implemented in C++ for both QNX and Linux platforms with compliance to ASPICE process.

- Led a team in developing a custom adaptive security solution for an IoT project (SOFC)
  - Contributed in security architecture discussions for the overall project
  - Ported SecOC (Secure Onboard Communication) to ARM64 Linux variant and implemented a custom Key Management solution
  - Developed expertise in TPM (Trusted Platform Module), utilizing it for key storage and specific cryptographic functions
  - Successfully demonstrated the communication between an ECU (classic SecOC) and an edge device (Adaptive SecOC).
  - Worked on-site at the client's location in Germany for final delivery
- Feature owner for KSP (Key Storage Provider) topics.  
 Successfully implemented a range of features for the Key Storage Provider (KSP), including: Support for storage of key material, Key establishment, Management of different key slots, Configuration parsing and Access control for key slots.
- Served as Bosch's representative to the AUTOSAR Consortium for topics in the adaptive security
  - Contributed to the development of the SecOC (Secure Onboard Communication) Protocol Specification (PRS) document
  - Reported and tracked bugs, and participated in related technical discussions within the consortium.

**Senior Software Engineer** (October 2017 - May 2021)  
***Robert Bosch Engineering and Business Solutions***

- Senior engineer working in **classic autosar diagnostic** topics.
- Component responsible for DCM (Diagnostics communication manager).
  - Requirement elicitation of customer features and modelling in Enterprise Architect.
  - Implemented various DCM features and services related to Security access, parallel UDS/OBD request processing, DID handling, encompassing various layers from DSL, DSD and UDS.
- Stakeholder Management and Feature Planning:
  - Discussion with various customers, stakeholders, product owners regarding new features, priority
  - Supervised, managed and led a team of 6 developers
  - Responsible to ensure good quality and timely delivery of Dcm work packages.
- Co-architected and implemented entire J1939Dcm module from scratch.
  - All the steps from requirements, Design, Implementation and Testing were carried out in strict adherence to quality - ASPICE approach (Level 2 certified)
  - Worked onsite in clients location(Germany) for final integration and release of the project

**Software Engineer** (September 2014 - October 2017)  
***Robert Bosch Engineering and Business Solutions***

- Ramped up knowledge on various diagnostic topics, processes and tools and developed software independently
- Worked with senior team members to implement various DCM services (as per ISO-14229 specification) and contributed to defect fix handling
- Experience in Static Analysis, SW Unit, Integration and Qualification testing as per ASPICE.

## Awards/Achievements

---

2023	Awarded Department " <i>Centerpiece</i> " award
2018	Awarded " <i>Person of the Year</i> " among 450 people in the department
2017	Awarded " <i>STAR SURPASSER</i> " award
2010	Secured 165 <sup>th</sup> rank (Engineering stream) in the Common Entrance Test (CET 2010) taken by more than 100,000 students.