Nischita R

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SUMMARY

As a Lead Engineer in Embedded Boot loader at Bosch, I spearheaded the design and implementation of cutting-edge embedded software solutions for automotive applications. Collaborating with cross-functional teams across India, Germany, Budapest and China, I ensured the delivery of high-quality software that met stringent automotive industry standards and customer requirements.

SKILLS

Programming & Tools: Embedded C, UML, Rhapsody, DOORS, Trace32, Vector Canoe.
Protocols & Architectures: CAN, CAN FD, UDS, KWP2000, AUTOSAR, ISO 26262
Embedded Platforms: ARM Microcontrollers, RTOS
Methodologies: Agile, FMEA, QMS, PLM
Domains: Boot loaders, ECUs, Parking Assistance, Embedded Cyber security

EXPERIENCE

Bosch Global Software Technologies   **Bengaluru, India**
LEAD ENGINEER   April 2018 till date

- Team Project Manager
    - Achieved multiple boot loader deliveries across major OEMs, meeting deadlines and optimized resource allocation.
    - Championed agile methodologies, improving team productivity by 30% and accelerating project timelines.
    - Collaborated with suppliers to integrate high-quality components, enhancing system stability and compliance.

- Product Lead
    - Directed full lifecycle development of Transmission Control Boot loaders, adhering to ISO 26262 and AUTOSAR.
    - Spearheaded risk assessments, budgeting, and delivery planning, consistently meeting project goals.
    - Co-ordinated for Parking Assistance ECU development, improving safety features and performance.
    - Collaborated with OEMs and Tier-1s to align technical requirements with business goals

- Technical Leader
  - Mentored junior engineers and led internal training on embedded systems and software engineering practices.

- Embedded Software Developer for Transmission and Parking Assistance Boot loader ECUs
  - Developed secure boot loaders supporting firmware updates for automotive systems
  - Integrated cyber security solutions like Escrypt HSM and Secure Flash.
  - Implemented and validated CAN, CAN FD, UDS, and KWP2000 protocols.
  - Configured BSW modules in compliance with AUTOSAR.

CRANES SOFTWARE INTERNATIONAL LTD.   **Bengaluru, INDIA**

Software Engineer   June 2015 to March 2018

- Designed embedded applications using ARM-based microcontrollers.
- Accelerated business growth by 30% by launching 3 new courses in Embedded Systems domain.
- Coached students and working professionals to achieve 25% to 75% salary hikes by providing deep knowledge on Embedded PDLC.
- Authored technical documentation and training content.

I have also completed one year of Internship on "Photonic Crystals Sensor for DNA Analysis of Cancer Detection, from Indian Institute of science, Bengaluru from 2014 to 2015.

EDUCATION

Master of Technology (M.Tech), VLSI & Embedded Systems
The Oxford College of Engineering, Bengaluru, India

Bachelor of Engineering (B.E), Electronics & Communication
PES College of Engineering – South Campus, Bengaluru, India

ADDITIONAL INFORMATION

- Authored manuscripts for technical presentation at various IEEE conferences.
- Published technical papers in IEEE