

AMRUTHA S

Embedded Engineer


PROFILE SUMMARY

- More than 2 years of experience in Embedded System Development
- Experienced in 32-bit Microcontrollers
- Proficient in embedded C/C++
- Skilled in I2C, UART, SPI, CAN, LIN.
- Debugging and Testing
- Agile method-SCRUM model
- RTOS(Free-RTOS)
- Vehicle Embedded
- AUTOSAR
- IAR Embedded Workbench
- Linux
- STM32CubeIDE

SOFT SKILLS

- Problem-Solving
- Communication
- Team Collaboration
- Adaptability
- Continuous Learning
- Analytical Thinking

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 Kottayam, India

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WORK EXPERIENCE

NeST Digital, Cochin, India [Software Engineer, Automotive & Industrial domain]

08/2022–09/2024

Roles:

- Review code and design.
- Comprehensive Analysis Tasks.
- Design DFD's and Flowcharts using Visio providing overall working of the module.
- Prepare Test case documents.
- Test app development.
- AUTOSAR-based System Development.

EDUCATION

B.Tech

[marks obtained

72.4%]

June 2018 – June 2022

APJ Abdul Kalam Technoogical University (College of Engineering Kidangoor) Kidangoor, Kottayam

SKILLS

C, C++, python and data structures

★ ★ ★ ★ ☆

Embedded C with 32-bit Microcontrollers

★ ★ ★ ★ ☆

AUTOSAR Classic

★ ★ ★ ☆ ☆

SPI, I2C, UART, CAN, PWM, ADC, LIN

★ ★ ★ ★ ☆
★ ★ ★ ☆ ☆

Test driven development

★ ★ ★ ☆ ☆

RTOS (Free RTOS) ARM Cortex-M Architectures

★ ★ ★ ★ ☆

Debugging: JTAG, Logical Analyzer, Oscilloscope

CERTIFICATIONS

- C Advanced Topics
- C Programming for Embedded Applications
- Learning in Git and GitHub

LANGUAGES

- English
- Malayalam
- Hindi

Jira, Git, Tortoise SVN, Share point.



Software dev env: Eclipse, VSCode, EB-Tresos, Davinci Configurator, Davinci Developer, Pycharm.



Ability to read and understand schematics



Hands on experience in Vector CANoe, CAPL Scripting.



Test Automation using CAN.



MAJOR PROJECTS DONE

AUTOSAR-based SCCM Project: Tier -1 Companies

Worked on the Steering Column Control Module configuration according to customer requirements and testing.

Responsibility	<ul style="list-style-type: none">• Performed ECU extract integration to ensure compatibility and functionality within the AUTOSAR framework.• Conducted PCAN integration to validate communication protocols and ensure seamless data transmission.• Configured Microcontroller Abstraction Layer (MCAL) to align with AUTOSAR standards and project specifications.• Executed comprehensive testing using CANoe to validate system performance and ensure adherence to test cases.• Developed and utilized CAPL scripts for automated testing and simulation..
Platform/ OS	Cypress Traveo II controllers
Team Size	6

Declaration

I hereby declare that the facts given above are genuine to the best of my knowledge and belief.