

KAVYA RAJAPANTULA

Embedded Software Developer

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Summary

I am an Embedded Software Developer with 4.2 years of experience primarily focused on C and C++ software development for automotive and embedded systems. I have a strong background in real-time application design, testing, and optimization, complemented by expertise in vector tools and compliance standards. I thrive in Agile environments and am recognized for my commitment to quality and performance enhancement

Skills

Languages: Embedded C, Python, C/C++

IDE/Tools: Eclipse, IAS Workbench, Visual Studio, Git, Jira, Doors

Testing & Debugging: Vector CANalyzer, Softune Debugger, TRACE32, CANTATA

Standards & Compliance: MISRA (QAC, ASTREE), CERT (QAC)

Tech Skills: RTOS (FreeRTOS), ISR handling, peripheral interfacing, Communication protocols (UART, I²C, SPI, and RS-232),

Experience

Continental Automotive Components (India) Pvt. Ltd

Software Developer

India

12/2023 - Present

Global automotive supplier specializing in brake systems, safety systems, and connected car technologies

• **OBU (On-Board Unit)**

- Developed and tested Embedded C modules for GNSS-based tolling systems used in heavy vehicles
- Implemented HMI driver interfaces, performed debugging with TRACE32, and ensured MISRA compliance
- Collaborated in a cross-functional Agile team using Git and Jira

• **MTCO 2.0 (Analog Tachograph)**

- Contributed to the development of tachograph systems for monitoring driver activity, speed, and faults
- Designed and integrated time management features (UTC/local time) and validated functionality with Softune Workbench and LabVIEW
- Supported ongoing development and issue resolution in collaboration with automotive engineers

Capgemini

Software Engineer

India

06/2021 - 12/2023

Consulting and professional services company that specializes in digital transformation

• **BVDR (Brazilian Vehicle Data Recorder)**

- Developed Embedded C modules for digital tachographs in compliance with Brazilian government regulations
- Delivered features for vehicle data recording, speed monitoring, and driver activity tracking
- Debugged and validated system functionality using Softune Workbench, LabVIEW Tools, and Eclipse

Certifications & Key Achievements

2× Spot Awards – Recognized for exceptional performance at Continental.

Training in MISRA compliance & Embedded C development.

Successful Delivery of Production-Grade Automotive Systems

Education

MVGR College of Engineering

B.Tech Computer Science with 8.7 CGPA

Vizianagaram

08/2016 - 05/2020