VIJAY THAKKAR

EMBEDDED SOFTWARE ENGINEER

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SUMMARY

Working as a Senior Software developer in Capgemini with exposure on different controllers with various protocols which include Developing Embedded Application using Embedded C.
Experience in all phases of system development, including requirements analysis, High Level and Detailed Level design documents, software development, software unit testing, integration testing and system testing.
Knowledge of OOPs Concepts and Real Time Operating Systems.

EMPLOYMENT

Capgemini India · Senior Software Engineer · Bangalore
Senior Software Engineer working in Product and Engineering Solutions Domain focused in Embedded Automotive Development vertical. Worked mostly in projects for Tier 1 supplier for Automotive Manufacturer(s).

EDUCATION

2014 CDAC ACTS Bangalore
PG Diploma Embedded System
Percentage - 72.43

2013 Gujarat Technological University
Bachelor of Engineering Electronics & Communication
CGPA - 8.16

2009 Intermediate
Percentage - 75.40

2007 10th
Percentage - 84.92

SKILLS

PROGRAMMING LANGUAGES	C, Embedded C, C++
PROTOCOLS	CAN , MOST, I2C, SPI, UDS
LINUX SPECIFIC	Knowledge of Linux Device Drivers, Linux Kernel Internal, Knowledge of Operating System Concepts
RTOS USED	MQX
SCM TOOLS	RTC, SVN
TOOLS USED	K2L Viewer, NeoVI Engine, RDS Editor, Enterprise Architect, Star UML, Source Insight, Beyond Compare, BCM Simulator, Diagnostic Engineering Tool, J-link, MATLAB
STATIC ANALYSIS TOOL USED	QAC, Coverity, PC-lint
DEVELOPMENT ENVIRONMENT	Eclipse Kepler
MICROCONTROLLER USED	Freescale Vybrid VF5xxR ARM Cortex A5/M4

PROJECTS

May 2015 to May 2016

Next Generation Audio Head Unit (Honda) — In-Vehicle Infotainment System

Role : Developer

PROJECT DESCRIPTION:
The client is developing a new car Infotainment system. AHU is Next Generation Infotainment Radio. The Next Generation Infotainment is based on MOST Architecture, where each component is guided by the FBLOCK supported by MOST. Radio has different applications like terrestrial tuner, satellite tuner, Amplifier and Analog Input.The work involves analysis, design, development, testing and maintenance.

Responsible for:
Estimate duration and plan activities to meet customer deliverable.
Involved in terrestrial, Digital and Silab tuner module feature analysis,design and development.
Developed application code for tuner advance features.
Developed diagnostic and MOST interfaces for tuner module.
Involved in defects fixing and enhancements.
Coverity report analysis For Tuner Module.
Weekly Sync calls with costumer to discuss issues and plan activities.

May 2014 to Apr 2015

Bob Diversity Audio Head Unit(Ford) — In-Vehicle Infotainment System

Role : Developer

PROJECT DESCRIPTION:
Aim of this project is developing an Audio Head Unit used in Automobiles and to migrate the product to a new hardware/software platform with enhanced capability and additional features. AHU supports features like AM/FM and Digital Radio, CD, Sirius, Chime, Bluetooth etc.
Project includes design implementation, testing and documentation for the product.

Responsible for:
Involved in Development of Tuner Application.
Involved in diagnostic interface development and testing using DET Tool. (Related to DTC's and DID's).
QAC report analysis for Tuner Module.
Involved in defects fixing and enhancements.

Jun 2016 to Current

Honda CC Code Review Activity

Role : Code Reviewer

Responsible for:
Involved in static code review activity.
Configured PC-Lint Tool for whole project and performed code review as per MISRA coding standards and customer coding guideline.