Harshita Ch

Systems Engineer (Embedded C++)

Cleveland, OH - Email me on Indeed: indeed.com/r/Harshita-Ch/1e2fef1aaa95ad02

Technical Skills:

Languages: C, C++
Web Technologies: Basics of HTML, CSS, JavaScript
Versioning Software: Clear Case, SVN Tortoise, CQ, Jenkins

Operating Systems: Linux, Windows XP/7, UNIX
Tools: IBM Rational Rhapsody, GL Studio, vim editor, putty,
G-Test, Parasoft, VM Ware
Scripting Language: Shell Scripting

Summary

• Proficient with extensive experience in Gathering
requirements, documenting, making low level design
involving sequence diagrams and state chart, developing and
delivering various modules of infotainment system meeting
deadlines with an intensive knowledge of Software
Development Life Cycle (SDLC).
• Good knowledge in Infotainment domain.
• Well organized in analyzing, designing, development,
reverse engineering and implementation of various
modules of infotainment system using IBM Rational
Rhapsody, GL Studio, C and C++ with strong Object
Oriented Concepts.
• Hands on experience in using IBM Rational Rhapsody (in
C++), GL Studio (For User Interface development).
• Fluid knowledge in Model-View-Controller (MVC)
architecture pattern and Test driven methodologies to
develop modules in infotainment system.
• Extensive experience in unit testing using G-Test (Google
Framework).
• Extensive knowledge about software development
guidelines for the C++ programming language developed
by MISRA (Motor Industry Software Reliability
Association).
• Extensive experience in the static analysis of the code
using Parasoft.
• Compiling, Debugging and Testing on Embedded Linux
Platform.
• Experience in using various version control tools like
Rational clear case, SVN, CQ and DOORS.
• Hands on experience in flashing the hardware -
Infotainment Master controller (IMC) and Infotainment

Slave controller (ISC) and ICAN.
• Extensive experience in testing the software (Subsystem and
adhoc testing) and fixing bugs after development to ensure
robustness of the system.
Willing to relocate: Anywhere
Authorized to work in the US for any employer

WORK EXPERIENCE

Software Developer
Honda R&D Americas - Raymond, OH - February 2017 to Present

Systems Engineer
TATA Consultancy Services - Pune, Maharashtra - May 2014 to December 2016

Client: Jaguar Land Rover
Project: Next Generation Infotainment Systems Description:
Next Generation Infotainment system is the infotainment
system of Jaguar Landrover cars.

Responsibilities:
• Responsible for gathering the requirements, feasibility
study, design, development, and debugging.
• Writing use cases for every feature and making Low level
design document.
• Making sequence diagrams and state charts using UML -
IBM Rational Rhapsody.
• Implemented Human Machine interface (HMI) of AVRCP
(Audio Video Remote Control Protocol),
MTP (Media Transfer Protocol),
Auto Blinds (Sun Roof control) in Model-View-Controller architecture using GL Studio for
View development and IBM Rational Rhapsody for controller development in C++, Embedded Linux platform.
• Responsible for unit testing of the code after implementation of the code on G-test framework.
• Responsible for Static analysis using Parasoft to make the code MISRA compliant.
• Compilation of the code in Linux platform.
• Flashing the hardware with RPM (Red Hat Packet
Manager).
• Ad-hoc testing of the feature at system level.
• Used SVN Tortoise and CC for versioning.
• Logging defects on CQ and resolving them using DLT
Log traces and gdb.
• Flashing the hardware rig - Infotainment Master
controller (IMC) and Infotainment Slave controller (ISC) and ICAN.

Summer Intern
Visakhapatnam Port Trust - Visakhapatnam, Andhra Pradesh - April 2011 to July 2011

Description: Designed Employee Management software in
C++

EDUCATION

Bachelor of Technology in Electronics and Communication engineering
Gandhi Institute of Technology and Management

SKILLS

C++ (4 years), C (3 years), Linux (4 years), embedded systems (4 years), IBM Rational Rhapsody (4 years),
GL Studio (3 years), Unit Testing (3 years), Parasoft (3 years)

ADDITIONAL INFORMATION

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