



Ahmed Fasiur Raheman
Vigana Nagar,Bangalore
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Experience - 9 Years
Contact - +91 9606259425
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Professional Summary

MCA (Master of Computer Applications) with 9 years of technical experience in Embedded C & C++, C++11, QT&QML with HMI Development on Automotive (Advance Cluster and Infotainment) next-gen projects.

Good knowledge of Embedded C++/Embedded C

JIRA (tickets management, srpint management)

Good working knowledge on Bluetooth

Good work experience in HMI Infotainment

Good work experience in HMI Cluster

Good work experience in HMI Navigations

Good work experience on NGI-HMI development of Auto-motive Infotainment projects for Jaguar and land Rover Cars.

Good experience on NGI-HMI Bluetooth features

Good work experience on HMI development of Auto-motive Cluster projects for General Motors Cars

Experience in debugging and to fix high severity defects.

Ability to work in a team environment and capable of absorbing technical knowledge quickly.

Extensive knowledge in OOPs concept.

A committed team player with good communications skills.

Ability to adapt to new environment.

Industrial experience Years

8.8

Senior Software Engineer
Aptiv TCI, india

3-Feb-2023-to-Till Date

Working as Team Leader with APTIV TCI Bangalore from Feb - 2023 to till date.

Senior Software Engineer

April-2020-to-5-2-2023

Harman International, india

Worked as Senior Software Engineer with Harman Connected Bangalore from April - 2020 to till date.

Consultant
Capgemini

Sep-18-to-March-2020

Worked as Senior Software Engineer with Capgemini (General Motors as client) Bangalore branch from sep - 2018 to March-2020

Embedded Software Developer
Tata Consultancy Services (Client)

Aug-17-to-Aug-18

Worked as Software Engineer with Tata Consultancy Services Bangalore branch from Aug - 2017 to sept-2018

Embedded Software Developer
People Tech Group, india

Feb-16-to-July-17

Worked as Software Engineer with People Tech Group Bangalore branch from Feb - 2016 to July-17

Skill set

TECHNICAL

JIRA (tickets management, srprints management)

Embedded C, Embedded C++ with QT & QML, Embedded C++11, C++14(Beginner), C++17(Beginner) IBM Rational Rhapsody, MySQL, Visual Studio with C#, AUTOSAR Integration, code merging and submission.

GIT, Elvis, Crucible, Clear Case, MISRA, CANG, Altia

QT Creator, GL Studio, CAN, AUTOSAR Integration, Bitbucket, Canoe, Linux, Trace Client, DLT viewer

FUCTIONAL

Team handling

Tickets creation and observation in JIRA

Scrum master

Sprints management

Hands on Bluetooth Components for next gen Infotainment for HMI

Hands on experience on Contacts synching via Bluetooth for IVI

Hands on experience on Radars for objects detections in cars

Hands on Middleware Component of NGI HMI

Hands on Driver Assist ADAS(Advance Driver Assistance Cluster)

Modelling and developing the Cluster application

Bugs Analysing

Resolve issues

Feature Enhancement changes

Core qualifications

- Strong experience in Embedded C++ Programming
- Hands on C Programming
- Hands on Modelling using IBM Rational Rhapsody
- Thorough understanding of OOP's Methodology
- Outstanding knowledge of software and hardware interactions

Projects Summary

Project : current project

Project 1:

Project title : Radar (Automotive)

Company : Aptiv TCI India

Client : Renault

Environment : Embedded C++,C++11, Visual Studio, Windows & Linux.

Tools : Visual Studio, Linux ,GIT, Plastic

Description:

This project involved development of Radar use cases to simulate the actual scenario to visuals by using the RESIM, major tasks were:

- Understanding and consuming the API calls to the to Radar detections and tracker.
- Radar detections and tracker
- SIL testing
- Virtual Validation
- Report generation
- Detections testing
- Validation for feature functions

Roles & Responsibilities:

- Testing the detections for Gen7 RADARS
- Simulating the detections
- SIL testing
- Virtual Validation
- Report generation
- Detections testing
- Validation for feature functions
- Releasing the SIL software docker

Project 2:

Project title : Bluetooth (Automotive)

Company : Aptiv TCI India

Client : Mahindra & Mahindra

Environment : Embedded C++,C++11, Visual Studio, Linux and QNX.

Tools : Visual Studio, Linux ,GIT

Description:

This project involved development of Bluetooth Features(Frameworks) for next generation Infotainment System. client (Mahindra cars). The project was composed of several modules like Stack, Bluetooth profiles, Connection manager, Contacts. Mainly focused on contacts synch and connection manager

Roles & Responsibilities:

- Contacts synch api creation

Connection manager handling
Bluetooth profiles
Image creation using QNX for all the contacts

Project title : Infotainment for Toyota Cars (CY17 & CY17Plus)

Company : Harman International

Environment : Embedded C++, QT & QML.

Tools : TraceClient, Perforce, Git, Teraterm, DLT Logger, Elvis, Jira, Linux.

Description:

This project involved development of HMI for an In-vehicle Infotainment system which contains several modules but working on Navigation. The HMI was developed from scratch in QT & QML framework, as per Screenshots, requirements provided by the client (Toyota). The project was composed of several modules like, HMI, Online Services, On/Off , Navigation, MAP , System etc.

Project 1:

Project title : AUTOSAR Integration & HMI Cluster (Advance driver Assistance)

Company : Capgemini

Client : General Motors

Tools : Embedded C, GIT, Build tools

Description:

This project involved development of Navigation HMI for Toyota cars. The HMI was developed from scratch in XML, as per Screenshots, Xml's and requirements provided by the client (General Motors). The project was composed of several modules like, RHMI, FUSim ,Oil Life, Driver Assistance, Vehicle Control etc.

. The HMI communicates with navigation via Mocca framework other modules, HMI has been developed by using QT and QML with C++ code data handled and passed to QML and other modeules.

HMI responsible to show the map, setting up the mapviewer, calculating screen size, and icons.

Navigation HMI: Navigation HMI contains the several modules mainly worked onto Map Update, Language settings, Coyote screens, popups, Modemanageretc.

I handled the Air Filter Life, Driver Assistance, Trip Pages, Blank Page fade, etc.

Other than development of HMI, major tasks were:

- Understanding and consuming the API calls to the middleware/hardware developed by client.

- Creating a desktop simulation of the service so that developed module can be tested on desktop if the hardware is not available.

- Developed HMI Cluster features on hardware provided by client.

- Resolving issues related to both HMI and APIs by having discussions with respective teams at client's end.

Roles & Responsibilities:

- Development of RTE

- Integrating the code for several layers of AUTOSAR

- Design and Development of State Chart, Structure, Object Model, Class Diagrams for Screen Transition Logic, Component Communication logic respectively.

- Creating dynamic widgets in GL Studio, HMI and forwarding the same to State Machine to get response from State Machine to make screen transition accordingly.

- Study Calibration requirement and implement the same.

Project 2:

Project title : NGI HMI Infotainment (Automotive)

Company : Tata Consultancy Services

Client : Jaguar Land Rover (JLR)

Environment : Embedded C++,C++11, GL Studio,Linux.

Tools : GL Studio, Fedora, GIT

Description:

This project involved development of HMI Bluetooth for next generation Infotainment System. The HMI was developed from scratch in XML, as per Screenshots, Xml's and requirements provided by the client (Jaguar Land Rover). The project was composed of several modules like Bluetooth, Audio/Radio etc.

Other than development of HMI, major tasks were:

- Understanding and consuming the API calls to the middleware/hardware developed by client.
- Developed HMI Bluetooth Features on hardware provided by client.

Roles & Responsibilities:

Design and Development of State Chart, Structure, Object Model, Class Diagrams for Screen Transition Logic, Component Communication logic respectively.

Creating dynamic widgets in GL Studio, HMI and forwarding the same to State Machine to get response from State Machine to make screen transition accordingly.

Study Calibration requirement and implement the same.

Project 3:

Project title : HMI Cluster (Advance driver Assistance)

Company : People Tech Group

Client : General Motors

Environment : OSEK, XML, Windows.

Tools : Embedded C and C++, IBM Rational Rhapsody, ODI Tool, Canoe

Description:

This project involved development of HMI for an In-vehicle Cluster System. The HMI was developed from scratch in XML, as per Screenshots, Xml's and requirements provided by the client (General Motors). The project was composed of several modules like, RHMI, FUSim, Oil Life, Driver Assistance, Vehicle Control etc.

I handled the Air Filter Life, Driver Assistance, Trip Pages, Blank Page fade, Speedometer, Engine boost, BreakPadlife, AirFilter, etc.

Other than development of HMI, major tasks were:

- Understanding and consuming the API calls to the middleware/hardware developed by client.
- Creating a desktop simulation of the service so that developed module can be tested on desktop if the hardware is not available.
- Developed HMI Cluster features on hardware provided by client.
- Resolving issues related to both HMI and APIs by having discussions with respective teams at client's end.

Project 4:

Project title : HMI Infotainment (Automotive) Low Radio

Company : People Tech Group

Client : General Motors

Environment : C++, QML, XML, QT.

Tools : QT Creator, QNX

Description:

This project involved development of HMI for an In-vehicle Infotainment System. The HMI was developed from scratch in XML, as per Screenshots, Xml's and requirements provided by the client (General Motors). The project was composed of several modules like Bluetooth, radio etc.

Other than development of HMI, major tasks were:

- Understanding and consuming the API calls to the middleware/hardware developed by client.
- Creating a desktop simulation of the service so that developed module can be tested on desktop if the hardware is not available.
- Testing the developed HMI Cluster on hardware provided by client.

Project 5

Project title : Screen Renderer ODI Simulation Tool

Project Description:

This Tool is developed to be used in the development of embedded projects and it is used to render the screens of car from the HMIC using the signals so the developer and testers as well can develop, test the MHIC easily effectively

Team Size : 1
Technologies : C++, Visual Studio, DBMS,

Education

Year	Institute	Course	Percentage
2011-14	Visvesvaraya technologies	MCA	78.00
2008-11	Gulbarga university, Gulbarga	BCA	81.00
2007-08	Y.S.E.S, Raichur	PGDCA	67.9

Certifications and Awards

Cleared Cisco Certified Network Administrator (CSCO12786216) in April 15.
Awarded for Developed ODISimTool Single handed

Personal Information

DOB : 01 Jun 1989
Father's name : Mr. Ahmed Shafiur Raheman
Mother's name : Shahenaz Begum
Languages Known : English (R, W, S), Hindi (R, W, S), Kannada(R,W,S), telugu
Driving License : Valid India Driving license
Passport No : k8359455
Date of Issue : 30/11/2012
Date of Expiry : 29/11/2022

Declaration

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Place: Bangalore

Date:

(Ahmed Fasiur Raheman)