



SUBHADEV TAREI

Application Developer C, C++, HMI, Automotive, Instrument Cluster, Infotainment

PROFILE SUMMARY

- Rich experience in Software Development, Project Execution, HMI Development
- Excellent understanding of Project Management and Software development life cycle (SDLC)
- Worked as an Individual Contributor for implementing programs as per requirements
- Took ownership of the tasks, interacted with the client and understood the complex program specifications
- Gained expertise in:
 - Application for Media Module (USB, CD, DVD, Aux) in **Infotainment** system in **Automotive Domain**
 - **HMI and CGI Scene Composer** (CGI Studio)
 - **Automation**
 - Application for **Instrument cluster** (Speedometer, Tachometer) in **Automotive Domain**
 - **onSync activity**
 - Constructor and Destructor concept
 - **Exception handling** concept
- Experience in **DOORS & Photoshop, OOPs concept in C++**, pointer, structure, union, function, dynamic memory allocation in **C** and **C++**, **Generic & Static** concept and **Virtual Function Mechanism**
- Excellent communication, analytical, and presentation skills enabling effective solutions that positively impact quality of the role performed

WORK EXPERIENCE

Tata Advanced Systems

Mar'2023-present

HCL Technologies Ltd., Chennai

Jan'2018-Feb'2023

Software Developer for HMI development in Infotainment System

Key Result Area:

- Executing projects related to various clients

PROJECTS:

Title: **Simulator Software GCS for Aerospace**

Time Period: **Mar'2023-Present**

Organization: **Tata Advanced Systems (TASL)**

Client: **Indian Aerospace**

Tools Used: **Windows XP/2000, Visual studio 2010/2015**

Languages: **C, C++, QT, OpenCV**

Team Size: **15**

Description:

GCS Simulator is used to provide the UAV training to internal pilot for the flight and operation. The Simulator System Virtually act as similar to actual UAV and it also provide the MAN machine interface (MMI) for training to internal pilot.

Responsibilities:

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ACHIEVEMENTS

Acted as key member of the Root Cause Analysis (RCA) team that analyzed bug patterns and provided insights and practices to the development team for prevention of high priority/severity bugs

Successfully tackled a critical situation pertaining to Application at the client's site

CORE COMPETENCIES

- Software Development
- Project Execution
- Coding/ Debugging
- Requirement Gathering
- Client Engagement
- Technical Support

TECHNICAL SKILLS



Programming Languages:

- C
- C++



Query Language:

- SQL



Design Software:

- CATIA V6



IDEs

- Microsoft VS 2005/ 2006/ 2007/ 2008/ 2010



Operating Systems:

- Window 98/XP/2000
- Windows 10

SOFT SKILLS

- Communicator
- Collaborator
- Team Player
- Analytical
- Quick Learner
- Problem Solver

EDUCATION

- B.Tech. (Electronics & Telecommunications) from BPUT, Odisha in 2014

- Understanding the specs provided by customer, analyzing and gathering System Requirements Specification (SRS)
- Engaging in unit testing and system testing .
- Working on:
 - Designing HMI for Application
 - Fixing all the IT bugs and ST bugs raised by Testing Team

Title: **Renault Production Program**

Time Period: **Sep'20- Nov'2022**

Organization: **RNTBCI(Vendor)**

Client: **Renault**

Tools Used: **Windows XP/2000, Visual studio 2010/2015**

Languages: **C, C++**

Team Size: **10**

Description:

Infotainment systems are automotive multimedia system. It has all the advanced application, which provides the user stability as well the use of technology for all the comfort and the facility. This product is next version of an existing version of Renault Infotainment System which adds HDMI interface to head unit using by which user can play video, audio file in head unit side. User can plug the USB mass storage, SD card and can play audio or video in the head unit. It has other application such as BT-Audio, BT-HF, BT-DUN, Asia Radio, VTR, AUX, IPod, CD, DVD, USB Audio, Audio Off, Tone Quality Adjustment, Voice Recognition, SW Control, Camera, Diagnostics, Audio Source Selection, Audio Setup, Top Menu, Navigation, DVD- Video, DivX, Video-CD, SD-Video, USB-Photo, SD-Photo, Tilt Control. It also supports the entire prototype for navigation system.

Responsibilities:

- Understanding the specs provided by customer, analyzing and gathering System Requirements Specification (SRS)
- Engaging in unit testing and system testing, code reviewing and code elimination
- Getting the Design docs reviewed from peers, superiors and customer Panasonic-san
- Working on:
 - Designing HMI for Application
 - Fixing all the IT bugs and ST bugs raised by Testing Team

Title: **Instrument Cluster for GWM**

Time Period: **Feb'18-Mar'20**

Organization: **BOSCH(Vendor)**

Client: **GWM**

Tools Used: **Visual Studio, CGI Studio, RTC, CANOE, MULTI**

Languages: **C, C++**

Team Size: **35**

Description:

The project focuses on making the instrument cluster for customers which is an end solution containing features like Speedometer, Tachometer, Warnings, Telltales, Board Computer in FPC platform. Extensively focused on creating HMI solution of above mentioned features. Mainly working in 2D graphics

Responsibilities:

- Analyzed and gathered System Requirements Specification (SRS) and understood the Specs provided by the customer
- Implemented **Speedometer** scene in 12 instrument clusters
- Used Candra and Courier framework and designed 2d scenes in CGI Studio
- Designed HMI for Application
- Fixed all the IT bugs and ST bugs raised by the Testing Team

PERSONAL DETAILS

Date of Birth: 30th March 1992

Languages Known: English, Hindi, Odia

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