

Production-Grade **In-Vehicle Infotainment** Solution for Automotive and Electric Vehicles



As a Technology Solution partner, we have collaborated with Automotive OEMs, Tier-1 Suppliers, Electric Vehicle Manufacturers across USA, UK, Europe, India, China, and Korea.

Our Android based Automotive Infotainment Solution has been deployed in global production programs of Electric Scooters, Electric Cars, and IC Engine Automotive Product lines.

Learn more about our expertise and technology service offerings for the development of Automotive Infotainment Solution:

1 **Android Infotainment Solution Development Services**

A Product Development Roadmap

- Requirement Analysis
- Technology Consulting Workshops
- Evaluation of hardware platform and software frameworks, for robust architecture design
- Designing the Product Development Roadmap, as per your business objectives

B UI /UX strategy

- Mock screen design
- Integration of Touch and Gesture controls
- Design of Custom UI controls
- Usability tests execution
- Evaluation of Test Results and Implementation of Changes

C System Security

- Creation of a Framework for secure installations of apps
- Design and implementation of a Multi-level security strategy

D Infotainment Solution development

- Design and Development of Hardware Modules
- Design and Development of Software Modules
- 3rd party integrations
- End-to-end Testing Support : Unit, Integration and Functional Testing

E Maintenance & Support

- Pre and post production support
- Support for validation and certification of the hardware components
- Verification and certification from Google and other 3rd party authorities

C Functional Safety Support

- ISO 26262 based Functional Safety Consulting Support
- ISO 26262 compliant Testing and Validation Support
- End-to-end safety analysis at Concept, System, Software & Hardware level

2 Android Infotainment Product Development: Software Design Services

A App Development & Integration

Navigation Maps/Co-pilot, Fuel Station, Music Apps

B IVI integration with Smart phones

Contacts sync and call management

C Integration with Communication and Diagnostic Stacks

(OBD-II, J1939, UDS, KWP 2000)

D Driver Distraction Mitigation Features

Integration of V2X and Voice commands

E Integration with 4-way Camera App

Support for reverse, forward & blind spot view

3 Automotive Infotainment Production Development: Hardware Design Services

A Hardware Development based on Freescale/NXP i.MX6

B Support for evaluation of the Hardware components

C Integration with LCD, GPS , WiFi, HDMI 1.4 modules

D Custom Development and Porting of Boot Loader

E Custom Development and Porting of Board Support Package (BSP)

E

Development of Device drivers for

- Touch & Display
- Interfacing with CAN bus
- Interfacing with ADC
- Power Supply,
- Camera & Audio
- BlueTooth, WiFi, GPS

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