

Client is a leading tier 1 company and one of the world's largest suppliers of automotive parts. The requirement was to develop a complete HiFi car audio system in three different versions.

Project Description

- Our customer had the requirement of developing three different versions of a HiFi car audio system, each intended for a different variant of the car.
- This Hi-Fi car audio had to include a Tuner (AM, FM, RDS), CD / MP3 mechanisms, CD changer (5CDC, 10CDC), Convergence sources (USB supported Media Player, Phone, Voice, Navigation), Audio DSP, Power Amplifier and Hi-Fi amplifier.

HCL Role

- HCL took on completion of the entire embedded software development which has the application layer, the abstraction layer and necessary communication drivers for the CD Mechanism, CD Changer, MP3 Audio Codec, Tuner and DSP Software based on the TMS470 32-bit platform. Software developed was compliant to MISRA coding guidelines.

Benefits to Customer

- HCL's proven automotive embedded software development processes helped to reduce the Time for software development for various variants of car and versions of car radios.
- This helped our customer to go for earlier Start of Production for all variants.
- HCL team interfaced with component suppliers for technical issues clarification and helped the customer to concentrate more on his business issues.

Technologies / Tools employed

- TMS470VFR1288 and TMS470VFR1688 Micro controllers
- Code composer studio for compiling and Lauterbach Trace 32 for debugging.
- MISRA QAC Tool for static code verification
- Vector tools like CANoe



How can I help you?

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