A leading OEM in North America needs an automated test platform to validate state of the art control modules which were being developed for a hybrid vehicle.

Project Description

- Our customer's R&D organization was developing state of the art control modules for a high profile hybrid vehicle. They needed an automated test platform to validate various control modules and automate the testing. This automated test platform was developed using ETAS Labcar hardware and software.

HCL Role

- ETAS Labcar Hardware and Software were used to create Hardware In Loop (HIL) models and automated testing
- Driver Models developed for various control modules like HCM, TCM, DPIM and BPCM using Labcar Developer
- Automated test scripts were developed in National Instrument Test Stand to validate all HW IO, CAN Data & Propulsion Integration Bench LAN
- J1979 ODB compliance integrated to the model
- Test scripts written in NI Test Stand to automate diagnostics & fault detection
- Automatic test execution and logging of test results

Benefits to customer

- Parallel development of test bench by HCL and control modules by customer reduced overall timeline of the program
- Customer team was able to concentrate more on core technological issues due to outsourcing of test bench development to HCL
- Reduction in overall cost of the project

Technologies/Tools used

- Card cage ES4100
- Labcar Developer
- NI Test Stand