USE CASE: IMPROVE SUCCESS RATES FOR SIMULATED TESTING WITH EMBEDDED SOFTWARE SUPPORT

CASE STUDY

CHALLENGES

At the beginning of the project, the customer had a very tight deadline to meet which was unattainable with their current resources. Extending the deadline would result in delaying deployment on future projects.

SOLUTIONS

The LHP engineering team provided on-site support while working to achieve full integration using custom- er teams, tools, and processes. During the project, LHP utilized existing expertise and customer software to complete verification and validation tests.

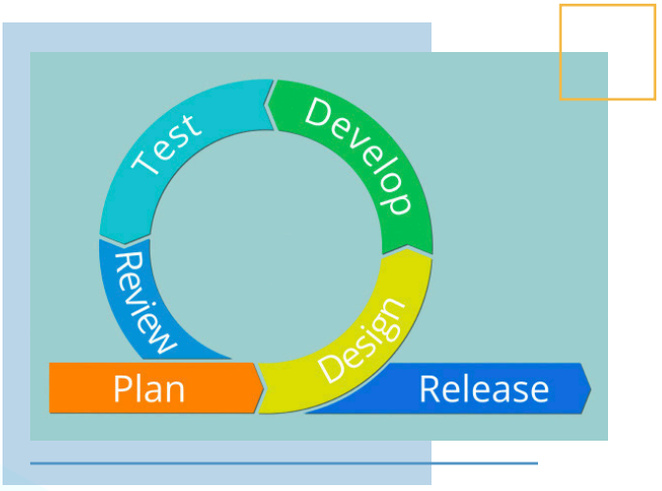
MAIN FEATURES

LHP began the project by performing a gap analysis on the system and software level test procedures against requirements. On interpreting the gaps in the engine control software, the team executed various verification & validation tests to develop, execute and meet customer requirements to successfully deploy the control software.

RESULTS

The team was able to create, update, and execute a significant number of test cases which resulted in improved success rates of system and software level tests. As a result, the customer was able to advance deployment three months, which resulted in improved efficiency, decreased delay, and an overall cost saving.

- ACCELERATE DEVELOPMENT
- IMPROVE PERFORMANCE
- INCREASE RELIABILITY
- REDUCE COST



The Customer has requested immediate phase 2 and follow-on support to continue the same project.

ABOUT THE PROJECT

Industy

- Aerospace

Company Name

- Aerospace Engineering Manufacturer

Tools/ Technologies/ Skills

- C
- Python (client-specific wrapper)
- SCRUM/Agile
- Atlassian (JIRA/Jenkins)
- Git

Goals of the Project

- Automate test system in support of updates to customer's engine controls software
- Complete software verification activities for engine controls software
- Improve success rates on system level tests on simulated SIL/HIL
- Get LHP to be fully integrated with agile development process

Application Area

- Integration of engine control software Testing and validation
- SIL/HIL Simulated Testing