Shinetech Software, Inc. | Detroit Diesel Case Study

System Migration and Maintenance for an American Engine Producer

With more than 5 million engines built since 1938, Detroit Diesel has a solid reputation as a leading manufacturer of heavy-duty powerplants. Completing a trouble-free system migration from C++ to C# was critical to their success *and* maintaining their customers' trust.

SHINETECH SOFTWARE

Powering Through a Successful System Migration for Detroit Diesel

The Client

Based in the U.S., Detroit Diesel is a successful manufacturer of heavy-duty diesel engines used in the on-highway, off-highway and marine markets around the world. On behalf of its customers, Detroit Diesel performs sophisticated engine testing and data analysis. Having this information allows the customer to ascertain each engine's optimal operational parameters which result in extending service cycles and maximizing fuel savings and ultimately, profits.

The Challenge

Detroit Diesel needed to seamlessly migrate all of their clients' engine performance and operating data from an outdated C++ system to a modern C# system with minimal downtime and absolutely no loss of data. Other challenges included supporting the new Windows™ operating system throughout the enterprise and adding new functions to the application as they became available.

The Solution

During Shinetech's pre-migration analysis, it was determined that due to the complexity of the project, a blend of manual and automated testing would provide the best results. Using an ODC service delivery model, the Shinetech product development team engaged in individualized testing to guarantee the quality of deliveries for Detroit Diesel.

The Results

The system migration was a complete success. After only one year of the three-year project, Detroit Diesel expanded Shinetech's role to include additional responsibilities such as business requirement analysis and technical requirement definition to full implementation of recommended initiatives.

> *After only one year of the three-year project, Detroit Diesel expanded Shinetech's role to include additional responsibilities.*

"We started a 3-month collaboration in 2008 as a tryout project. Shinetech not only delivered the project on time but also delivered it with good quality. We have since used Shinetech to augment our software development needs and have successfully completed several big projects. Shinetech engineers have good command of the English language, understand software development processes, and are very responsive to customer needs. They are a good offshore company to work with."

Daming,
Manager of Electronic
Tools and Infrastructure
DetroitDiesel