

Motor Manufacturing Company

COMPANY OVERVIEW

This Motor Manufacturing Company produces golf cars, all-terrain vehicles, water vehicles, and utility vehicles. Based in Georgia, the company resells its vehicles via US division. Clients range from end users, to organizations (such as golf courses) that own and maintain up to several hundred vehicles.

BUSINESS & TECHNOLOGY CHALLENGES

The company had built-in diagnostic services and configurations that required a laptop computer connected to a special wiring harness in order to communicate with it. These tools however, were complex and unsuitable for consumer use. The company desired to provide a tool with an easy-to-use interface for the average consumer, as well as a better method of communicating with the motor CPU rather than using a laptop and wiring harness.

THE CORUS SOLUTION

Corus' initial work in 2002 involved creating a mobile application running on PalmOS that leveraged infrared (IR) technology in order to communicate with the motor CPU. Since its original version, Corus has updated the Palm application several times as the motor CPU requirements have evolved, which included providing new product security features based on the motor's serial number. Some versions of the software require a password that a user can request from customer support. Our consultants also assisted the company in enhancing customer security through the development of an application created in Lotus Domino.

In 2006, the company decided PalmOS was not a viable future platform. To resolve this need, the company began evaluating the opportunity to utilize MS Windows Mobile .NET Compact Framework on a PocketPC handheld device, using serial over USB communications. At the request of the company, Corus created a working prototype mobile application for the PocketPC as well as a simple Windows application that simulated the motor CPU in order to demonstrate the communication between the handheld device and CPU across a serial port connection. Because of the prototype's success, the company now has the option of upgrading the next generation of applications to a Windows Mobile .NET-based application.

MEASURABLE RESULTS

The company now has a diagnostic system on a more widely adopted platform with Palm, which is on par or better than the solutions provided by its competitors. The company has distributed approximately 200 copies of the Palm software to large consumers and has benefited from the enhanced capabilities and flexibility.

- PROJECT SPECS -

CLIENT:

**MOTOR MANUFACTURING
COMPANY**

INDUSTRY:

MANUFACTURING

- PROJECT DETAILS -

TECHNOLOGIES USED:

- MS Windows Mobile .NET
- MS Windows Application

SERVICES RENDERED:

- Application Development

