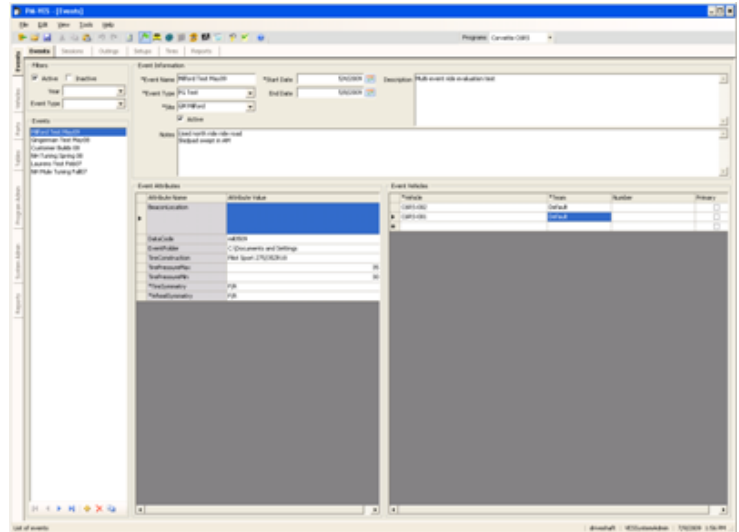


## ENGINEERING – Vehicle Engineering System

### Overview

Michigan based, Pratt & Miller is a world-class engineering company and respected industry leader in motorsports, commercial, military, and aerospace industries. They provide a full range of services from design, engineering, manufacturing, and vehicle program management capabilities.



### Business Needs

Pratt & Miller has designed and developed many applications internally with their in-house team of .NET developers and SQL DBAs. Many of these applications were written utilizing Microsoft Access® and MATLAB®. Pratt & Miller had begun an effort to re-write many of these applications utilizing .NET and SQL Server with the goal of combining them into one Vehicle Engineering System (VES). Since the applications were originally designed to support internal racing programs, they had to be redesigned for a wide range of users and application outside of the racing industry. These applications are core to the organization and allow the engineers at Pratt & Miller to gather and analyze data across their racing and automotive development programs. Pratt & Miller knew the foundation of their past success hinged on their ability to rewrite VES into an enterprise class application. However, their software development team was in need of methodologies and development practices structure. This structure involves the full life cycle of software development. The new racing season was quickly approaching only adding further complications to their efforts. While some structure was in place, Pratt & Miller needed to fully leverage the investment made in the internal development team so the entire SDLC process was addressed from Requirements gathering, to Functional Specification and Design creation to best practices of development, project management and quality assurance.

### Strategy

Logical Advantage was brought in to provide hands-on mentoring of Pratt & Miller's internal development team and provide time proven best practices adopted and developed by Logical Advantage. These services included licensing Logical Advantage's Business Requirements, Functional Specifications and Design templates, as well their application framework LAAF<sup>SM</sup>. Logical Advantage assigned Pratt & Miller a senior team of consultants consisting of a Business Analyst, Project Manager, Technical Architect and several Senior .NET Developers. These SDLC (Software Development Life Cycle) practitioners consulted around the development of Pratt & Miller's new Vehicle Engineering System.

### Benefits

With consolidation of several applications into one enterprise solution, Pratt & Miller was able to provide their engineers and clients a stable, easy to use application. There were many benefits as a result of this effort, which include:

- The VES system was delivered to their motorsport clients in time to implement it in the field for the 2009 racing season.
- Having only one central system reduced Pratt & Miller's maintenance and support costs.
- Including Pratt & Miller's internal development resources on this project allowed for a smooth knowledge transfer
- Licensing Logical Advantage's Requirements, Functional Specifications and Design templates allowed Pratt & Miller to adopt best practice skill sets.
- Licensing Logical Advantage's Application Framework (LAAF<sup>SM</sup>) provided Pratt & Miller's development team with a future application framework that will ensure future development projects will be scalable and secure.

### About Logical Advantage

Logical Advantage is an award-winning, full-service Information Technology consulting and application outsourcing company. We are dedicated to providing high-quality, cost-effective custom software development and consulting services. We specialize in mastering complex business challenges, delivering mission critical solutions backed by our deep expertise and proficiency in Microsoft® technologies.

