

The Amazing Adventures of Spider-Man

Project

The Amazing Adventures of Spider-Man

Client

Universal Studios EscapeSM

Scope of Work

Design, fabricate, install, and program computerized Ride Show Supervisor ("RSS") to control and precisely synchronize the numerous complex ride and show elements that comprise The Amazing Adventures of Spider-Man ride at Universal Studios Islands of AdventureSM theme park in Orlando, Florida.

Challenges

- Make the control system flexible and reliable
- Make the system simple to maintain and operate
- Insure guest and employee safety throughout the ride

The ITEC Solution

Make the control system flexible and reliable

Since its spring 1999 debut, The Amazing Adventures of Spider-Man has been acclaimed as one of the most exciting theme park rides of all time. Its thrills require the perfect synchronization of many ride and show elements, including rapidly moving motion-base ride vehicles, 70mm 3-D film projection, digital surround audio, live pyrotechnics, and numerous lighting cues and special effects. ITEC Productions[®] created Spider-Man's Ride Show Supervisor to precisely orchestrate these diverse elements, performing reliably, cycle after cycle. To withstand the rigors of daily operation, ITEC used proven industrial-quality hardware components. ITEC then developed a sophisticated simulation program to extensively test and verify RSS performance under maximum load conditions.



Make it simple to maintain and operate

The three equipment racks that contain the Spider-Man RSS are specifically designed for easy maintenance access. Operationally, the RSS is virtually a "hands-off" system, requiring minimal operator intervention. Instead, the system's dual processors split the control responsibilities: one processor automatically handles all the inputs/outputs for the ride's special effects, operator interface panels, diagnostics, and communications; the other processor, meanwhile, is devoted exclusively to show scene timings.

Insure guest and employee safety

With so much motion going on in the ride, plus real flames and other major effects, guest and employee safety in Spider-Man is a priority. Manufactured in ITEC's U.L.-certified facility, the attraction's RSS ties all the ride sensors and diagnostic systems together, enabling ride operators to continually monitor every element for safety.



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