

Acquiring In-Flight Parafoil Performance Data from LabVIEW Virtual Cockpit

Customer

Pioneer Aerospace Corporation in South Windsor, CT (www.pioneeraero.com) manufactures state-of-the-art aerodynamic decelerator systems, including parafoils designed for military high-altitude free-fall operations and cargo delivery.

Challenge

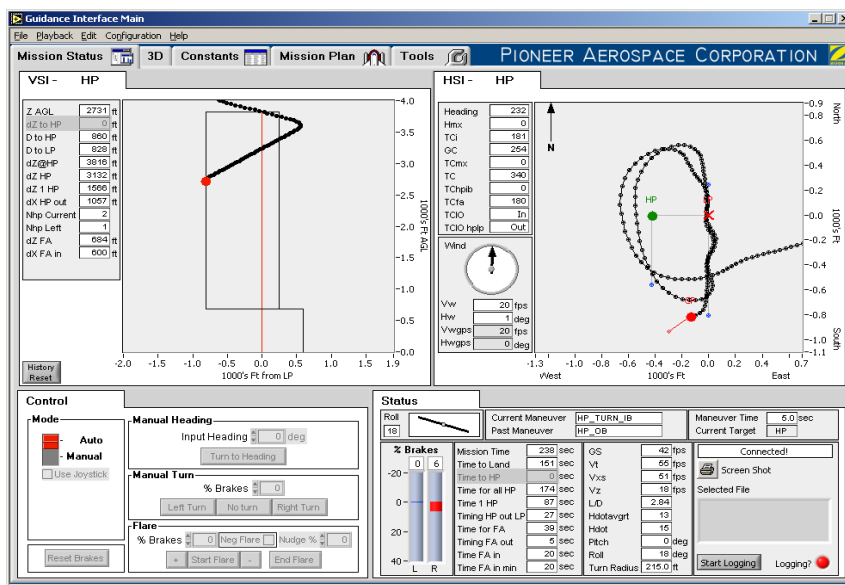
Provide real-time flight control interface to allow pilot on ground to interactively fly and collect parafoil performance data.

Solution

Create a LabVIEW virtual cockpit that provides full flight control of parafoil and displays all relevant parafoil position and performance data.

Key products used:

- National Instruments LabVIEW



The LabVIEW virtual cockpit displays the position of the parafoil in flight and includes vertical and horizontal situation indicators.



The X38 Crew Return parafoil system from Pioneer Aerospace

Benefits

Pioneer Aerospace – faced with a tight schedule and limited budget – quickly received and deployed a highly configurable, easy-to-use flight control interface.

“Bloomy Controls provided excellent service in creating a flight control, mission display, and data acquisition interface pursuant to our requirements and direction. It was a pleasure to work with a highly motivated, intelligent, and affable staff.”

– Roger Emerick, Engineering Program Manager, Pioneer Aerospace Corp.

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