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## **Expert Microsystems Completes Sensor Data Qualification Project for NASA Glenn Research Center**

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Expert Microsystems has successfully completed the Phase III SBIR project, *Sensor Data Qualification for Exploration Systems* sponsored by NASA Glenn Research Center. NASA Glenn Research Center is developing Sensor Data Qualification (SDQ) technologies for future launch vehicles, such as the Ares I. The goal of these efforts is to ensure that critical safety and operational decisions are based on accurate, rather than faulty, sensor data.

Using the SureSense<sup>®</sup> software package, Expert Microsystems demonstrated the ability to accurately detect and diagnose sensor faults and identify anomalous system operating states. The SureSense package is also able to automatically generate and export SDQ run-time modules that are embeddable in other computer programs or control systems and that are in a form suitable for real-time execution.

“The SureSense technology is now available for other propulsion, aviation and commercial applications”, says Randall Bickford, founder and President of Expert Microsystems. “Our technology can be used by design, test and safety engineers to validate real time ground and flight test data. This real time data validation capability eliminates test delays caused by faulty sensors thus avoiding costly test delays due to erroneous data. These same modules can then be deployed with the operational system.”

### **About Expert Microsystems**

Expert Microsystems has been developing innovative Prognostic and Health Monitoring (PHM) software solutions since 1994. In partnership with the US government and private industry, Expert Microsystems has developed the most accurate, flexible and cost effective PHM software available. This patented software—available under the SureSense<sup>®</sup> product name—detects operating anomalies and faults, automatically performs diagnostic analysis, and predicts remaining useful life of a degrading asset giving an essential early warning before the asset fails. SureSense has been successfully validated and used in numerous applications including: energy and power, military systems, rocket propulsion, aircraft turbine engines, batteries, cyber security and OEM embedded diagnostics.

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