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Expert Microsystems Receives Prestigious NASA Space Act Award

Orangevale, California, August 20, 2011

Randy Bickford, founder and President of Expert Microsystems, has been awarded a NASA Space Act Award for his work on a *Modular Architecture and Generalized Methodology for Onboard Sensor Data Qualification in Human-rated Launch Vehicles*. The prestigious Space Act Award recognizes NASA employees and contractors for their significant scientific and technical contributions to NASA's aeronautical, commercialization, and space goals.

This award recognizes the development of an integrated set of flight-capable software algorithms used to qualify data obtained from mission-critical sensors onboard a human-rated space launch vehicle prior to the data being used by other flight software algorithms. Sensor data can become corrupted or faulty at any point in the signal path between the sensor and the vehicle's flight computer. Qualifying the sensor data has the benefit of ensuring that erroneous data is identified and flagged before being used for important mission decisions. For example, the use of faulty sensor data for making abort decisions could result in the unnecessary initiation of an abort sequence putting the crew and the mission at jeopardy, or in the missed detection of an abort condition possibly resulting in loss of crew or loss of mission.

The technology used in the NASA application is commercially available now within Expert Microsystems' SureSense® software. Applications for online data quality assurance are wide spread in the military, aerospace, power generation and process industries.

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® 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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