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Expert Microsystems Completes Innovative Turbine Engine Diagnostic Project

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Under the sponsorship of the US Air Force Arnold Engineering Development Center, Expert Microsystems has successfully completed the innovative Real-Time Turbine Engine Diagnostic System ("RTEDS") project. Funded under the Small Business Innovation Research (SBIR) program, RTEDS is a powerful software tool designed to reduce costs, expedite ground and flight test data processing, and increase the safety, reliability and availability of aircraft turbine engines.

"This SBIR innovation provides a real-time engine diagnostic system that is capable of simultaneously monitoring for, distinguishing between, and classifying the source and type of sensor, engine and facility faults", says Randall Bickford, Founder and President of Expert Microsystems. "The RTEDS online diagnostic monitoring system enables test engineers and data analysts to quickly and cost effectively build and validate sophisticated software for automated data quality assurance and certification of engine systems and components." The off-the-shelf software is very user friendly and can be quickly configured for specific engine, facility or data system requirements. Because it is built on a flexible, modular platform you do not need to be a programming expert to rapidly customize the software for unique test requirements. This innovative software is now available for commercial engine monitoring applications.

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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