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Expert Microsystems Successfully Demonstrates Revolutionary Battery Diagnostic and Prognostic Technology

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Expert Microsystems has successfully completed Phase I of the *Advanced Service Life Management for Military Aircraft Batteries* Small Business Innovation Research (SBIR) project sponsored by the Office of Naval Research. Expert Microsystems patented software predicted the life cycle behavior of the Lithium Ion Battery Cell for the Joint Strike Fighter with >99% accuracy through its charge and discharge cycles.

Expert Microsystems has also demonstrated highly accurate algorithms that can predict the remaining useful life of a battery based on the actual operating environments and usage history for the device. "Every battery has a unique degradation profile based on its historical usage pattern" says Randall Bickford, founder and President of Expert Microsystems. "Our software automatically predicts the remaining useful life of a battery system based on the actual duty cycle and operating environment for the battery. This approach is much more accurate than the idealized or theoretical models used for most battery service life predictions."

This advanced software technology has been tested against stringent military requirements and is now available for commercial battery and stored energy applications. For more information regarding this revolutionary technology contact Expert Microsystems.

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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