

Electrical Health & Usage Monitoring System (eHUMS)TM

United Aircraft Technologies

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Improves aircraft readiness through Condition Based Maintenance Plus



Technology Overview

- A smart and lightweight clamping system that can map, monitor, diagnose, and perform prognosis within the Electrical Wiring Interconnecting System (EWIS).
- Novel electrical wiring Digital Twin for 3D visualization, fault localization, and assessment of electrical wiring remaining life.
- Standalone platform with data analytics with integration capabilities.
- Technology Readiness Level (TRL 5) .

Improves maintenance efficiency, takes off weight, and creates predictive analytics

- “\$94 million is spent annually in time and materials for the removal of equipment due to undiagnosed wiring problems” - US Navy.
- UAT is integrating aircraft-specific data from an eHUMS into a maintenance and operational software platform. The condition status provides maintenance and safety personnel with key inputs for decision making.
- UAT is looking for Air Force collaborating partners to advance into a Phase II contract.

Airspace Management <input checked="" type="checkbox"/>	Command & Control <input type="checkbox"/>	Comms <input type="checkbox"/>	Power & Energy Storage <input type="checkbox"/>	Propulsion <input type="checkbox"/>	Sensors & Awareness <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
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