

PROJECT PORTFOLIO



Digital Twins Program

Predictive Analytics for Manufacturing Processes

Quantum computing and advanced machine learning will analyze chemical, temperature, voltage and other critical data in the metal finishing manufacturing line for complex aircraft parts. This will provide new insights for the development of a digital twin and an optimized manufacturing process for large equipment such as aircraft components.

Consortium



Learning Factory Digital Twin

A proof-of-concept to develop a digital twin of the manufacturing process of aerospace components. This will allow hands-on learning and research to drive continuous improvements through predictive maintenance, real-time monitoring, and quality control. The digital twin will also inform future work and create a new approach to advanced aerospace manufacturing.

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Augmented Reality for Maintenance and Inspection

Imagine you are an engineer who needs to document damage on the surfaces of commercial aircraft or large shipping vessels. This project will create a tool to enable the display of data in an augmented reality view to improve the safety, accuracy and cost of inspections of these very large objects.

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