



USE CASES

- 1 XR-based Virtual Training for Maintenance of Wing Anti-Ice Valve
- 2 Human Digital Twin for XR-based Maintenance Processes

USERS/ PERSONAS

Aircraft Maintenance Technician

APPLICATION

XR-based Training Programs, Personalized XR Content

RESEARCH AREAS

XR, VR, Generative AI, DT

TECHNOLOGIES

Hololight Hub, Unity, Meta Quest

PILOT

Worker Centric Aircraft Maintenance Training

AI-enhanced XR technologies to train and support Aircraft Maintenance Technicians (AMT) in performing critical maintenance procedures.

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SOLUTIONS

- 1 Extended Reality (XR) application developed with Unity, to train AMTs performing the maintenance of the Wing Anti-Ice Valve (WAIV) with support of an AI assistant.
- 2 Extended Reality (XR) application developed with Unity, to guide AMTs performing the maintenance of the Wing Anti-Ice Valve (WAIV) with support of a Human Digital Twin.



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