HoloLens: Bridging the Gap Between Real and Artificial Worlds

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Bridge the gap between classroom and simulation.
INTEGRATING AUGMENTED REALITY INTO THE CLASSROOM AT WESTERN MICHIGAN UNIVERSITY
Transferring procedures training from the simulator to the HoloLens

- Cockpit Systems Integration
- Scenarios for each QRH
- Procedures
- Practice malfunctions
- Assessments
- Brings the simulation into any learning space
- Hands on Practice
- Micro-simulations
- Aircraft preflight/walkaround
Create Virtual Training Elements and Lab equipment when Space and Resources are lacking.
Virtual Laboratory's for Aircraft Systems Training
Interactive Augmented reality allows practice procedures anytime and at any place.
Instructor can see what the student is doing on his computer and interact in real time from any location. Session is filmed for debrief.
HOW CAN WE USE AUGMENTED REALITY IN AVIATION TRAINING?

- Create virtual laboratories
- Procedure Training
- Systems
- Aircraft familiarization
- Micro simulations
- Just Maintenance Training- Operations
- Cabin familiarization and training
- Virtual manuals
- Hands Free Remote assistance
Remote Expert Mode connects the crewmember to ground control via Skype. The person in the maintenance facility and the one in space are both seeing the same thing at the same time. Maintenance can get guidance for problems in real time as well as visual help.
IDENTIFY THE PROBLEM OR GAP TO FIND BEST SOLUTION
CREATE AND UPDATE CUSTOM TRAINING
BUILD FOR ALL PLATFORMS OR BUILD FOR TASK

PC

Tablet/phone

Vr and AR
Time to validate
Recommendation 5 – Include Part 147 in Draft Advisory Circular “Alternatives to Classroom Training”
– Improvements in technology require AMTSs to be allowed to use alternative delivery methods where allowed to use alternative delivery methods where appropriate.
“adaptive syllabus” where artificial intelligence (AI) updates the learning plan in real time to keep the student constantly in the zone of proximal development where they are challenged the optimal amount for learning.
The best way to predict the future is to invent it. It is a very good time to start inventing the future of aviation training.

Join us on this journey
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