



Interior Designers use HoloLens to create holographic room layouts

Business Challenge

Create a proof of concept experience for award-winning Interior Designers to use the HoloLens in their customer's home and in their personal design studio.

Scenario

- Pre-planning – with the customer, the designer uses HoloLens spatial mapping feature to gather on-site measurements and a companion app to access a rich library of furnishings and inspirational style ideas and references.
- Design – The designer uses the HoloLens to render layout options as real size holograms in their studio, adding items to the design, adjusting the layout, selecting materials and art objects based on their pre-planning consultations.
- Presentation – Designer and customer review and make final adjustments to the custom design together. Final selections are automatically routed to a cloud-based e-commerce system for permanent reference and final purchase.

Outcomes

- Integration of HoloLens with existing product catalogs and design tools.
- Collaborative real-time interaction between customer and designer using HoloLens to enhance the custom design and final review experience.
- Ability to preview 3D holograms of extensive library of items not available in a physical store.

Exploring ultrasound and mixed reality to support EMTs in the field

Business Challenge

Create scenario where ultrasound and mixed reality are used to support EMTs in the field.

Scenario

- Paramedics approach accident site and find patient, retrieve relevant data, measures vitals (e.g. blood pressure, pulse rate, etc.), and scans the patient for trauma with ultrasound.
- All data is relayed to a nearby hospital, where a remote expert assists in emergency decision making and treatment guidance. Expert can review all scan data and relate that to the positions in which the data were acquired.

Outcomes

- Hold combined workshop at the ACN Tech Labs/ Liquid Apps Studio.
- Protocol Workup with Remote Guidance. Video snippets from role-played vignettes and corresponding live HoloLens AR videos captured to share the interaction and user experience.
- See live data from external sources on the HoloLens. Connect all data sources to the rest of the system.
- Show 3D animated data in the HoloLens - 3D movie of a mitral valve, and a still of a 3D fetal ultrasound dataset viewable on the HoloLens.

Multinational aerospace and transportation company

Business Challenge

Bring an immersive aircraft experience to life.

Scenario

- Users - including customers, manufacturers, designers or suppliers - gain a real-time view of actual surroundings combined with an overlay of intelligent virtual objects, providing new interactions through gesture and voice inputs.
- While the person with the headset walks around the aircraft, 3D objects, videos, sounds and virtual screens bring the C Series aircraft to life.
- Users can stop at different points around the aircraft to explore and gain instant access to information about the major components of the aircraft such as cockpit nose design, engine and composite wing details, as well as information related to the supplier of the components.

Outcomes

- Proof of concept based on research pioneered by the Accenture Labs.
- Example of how forward-looking enterprises like Bombardier can leverage mixed reality technology to dramatically change customer and worker experience.

HoloLens History Of Computing Overview

Business Challenge

Develop 1st user experience featuring new Microsoft HoloLens device and Mixed Reality technology to showcase capabilities and generate innovative inspiration.

Scenario

- A tour of pivotal points in the history of computing technology.
- Purpose is to showcase the capabilities of the HoloLens for a first user experience.
- A 10-15 minute instructor guided single user experience.

Outcomes

Provide first time HoloLens users with an original demonstration of Mixed Reality and device capabilities including:

- Spatial Mapping
- Spatial Sound
- Spatial Illusion
- Gaze & Gestures
- Voice Commands
- Integration of Bluetooth Accessories
- Hologram Manipulation

Global energy and automation management company

Business Challenge

Develop R&D engineer training using a shared mixed reality experience.

Scenario

- Focused on an R&D engineer designing an electrical breaker box - Expanding components and evaluating them, and running a simulation.
- In their R&D Lab, engineers review designs for an electrical system in a breaker or meter, and overlay visuals of design options onto a physical model.

Outcomes

- Developed a multi-user networked shared experience (4 devices collaborating).
- Allows engineers to explode out a breaker box to see their components and details, and perform a simulation of currents passing through the breaker box.