



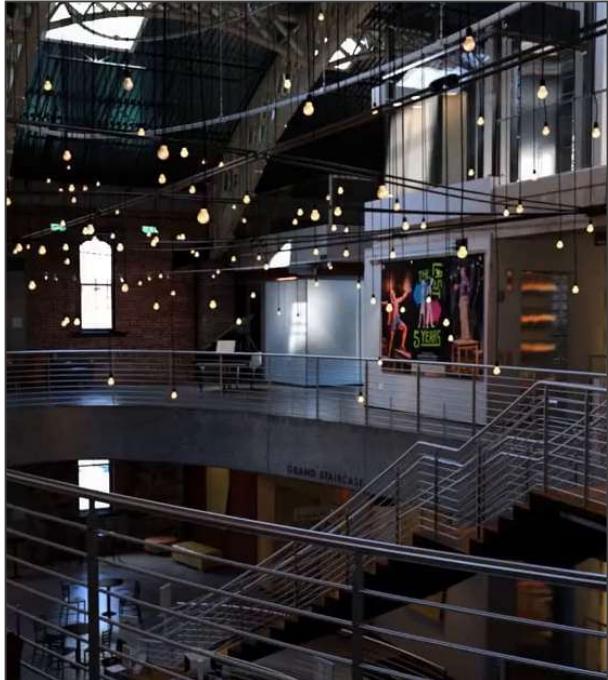
NVIDIA HOLODECK UPDATE

David Weinstein, August 15 2018

PROFESSIONAL DESIGN

High Bar for Accuracy and Realism

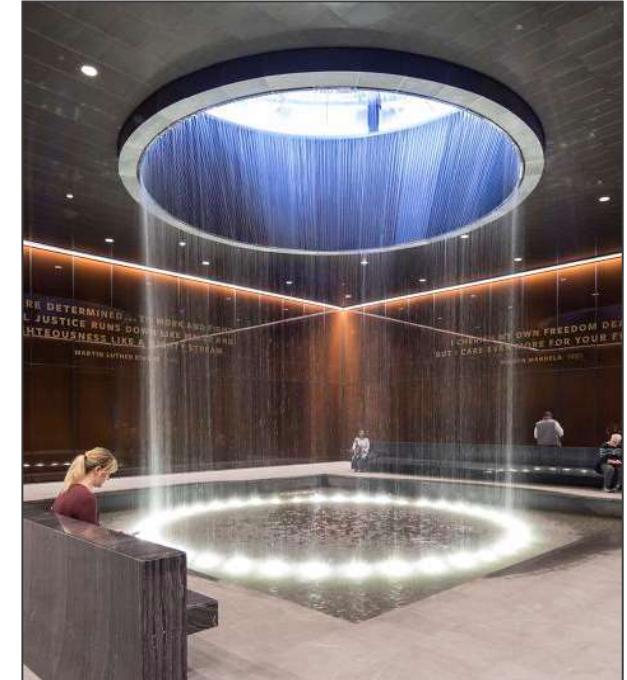
PHOTOREAL



DETAILED & ACCURATE



INTERACTIVE / DYNAMIC



VR IS REVOLUTIONIZING DESIGN

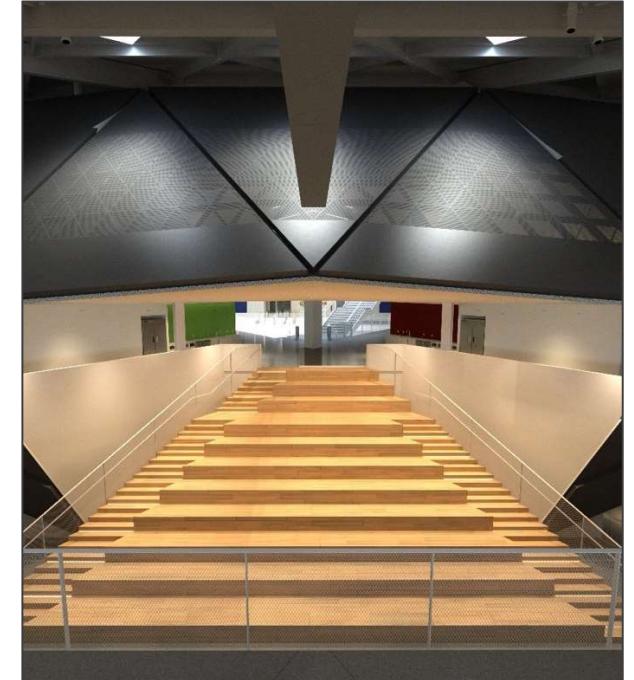
MEDIA & ENTERTAINMENT



MANUFACTURING & DESIGN



ARCH, ENGINEERING CONSTRUCTION

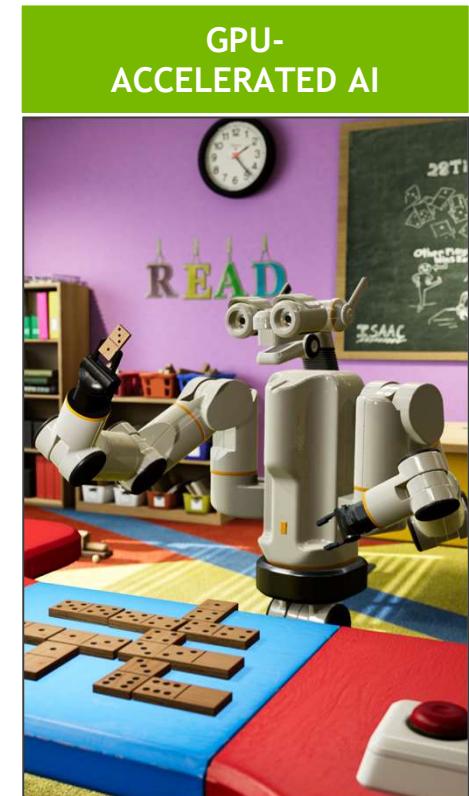
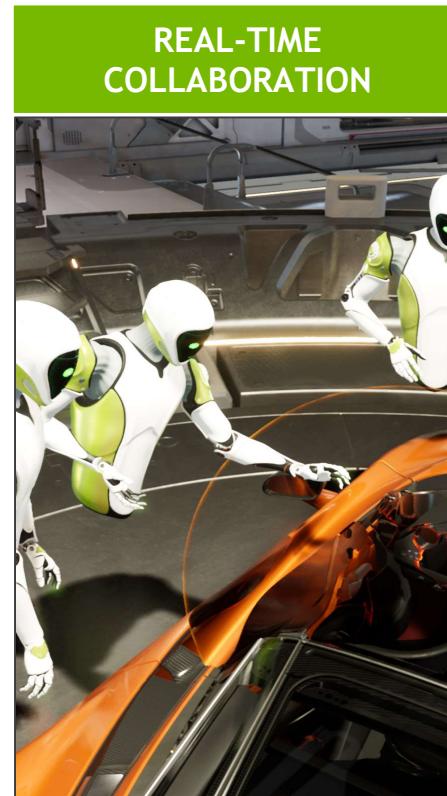
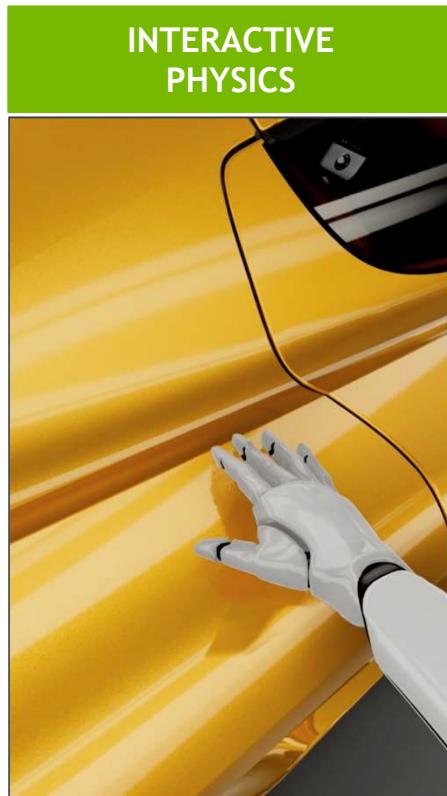


NVIDIA HOLODECK

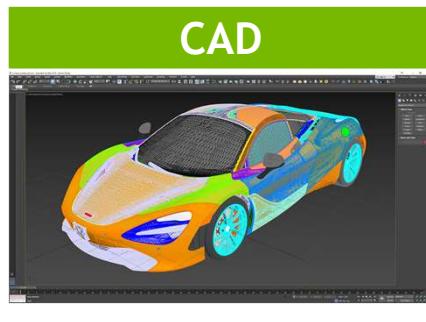
Design Lab of the Future



PHOTOREALISTIC, COLLABORATIVE DESIGN PLATFORM

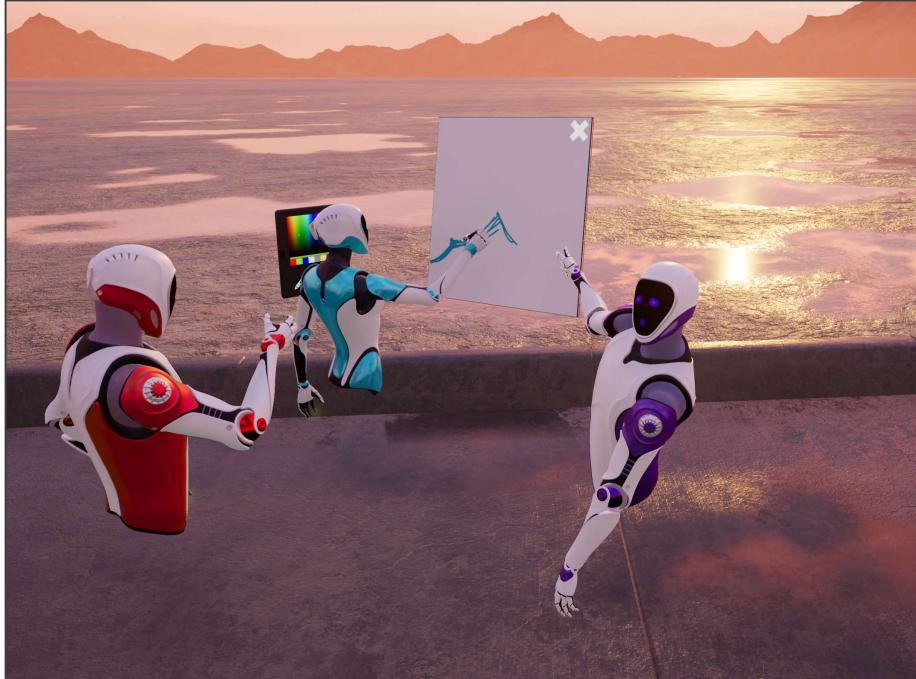


REVOLUTIONIZING THE DESIGN WORKFLOW



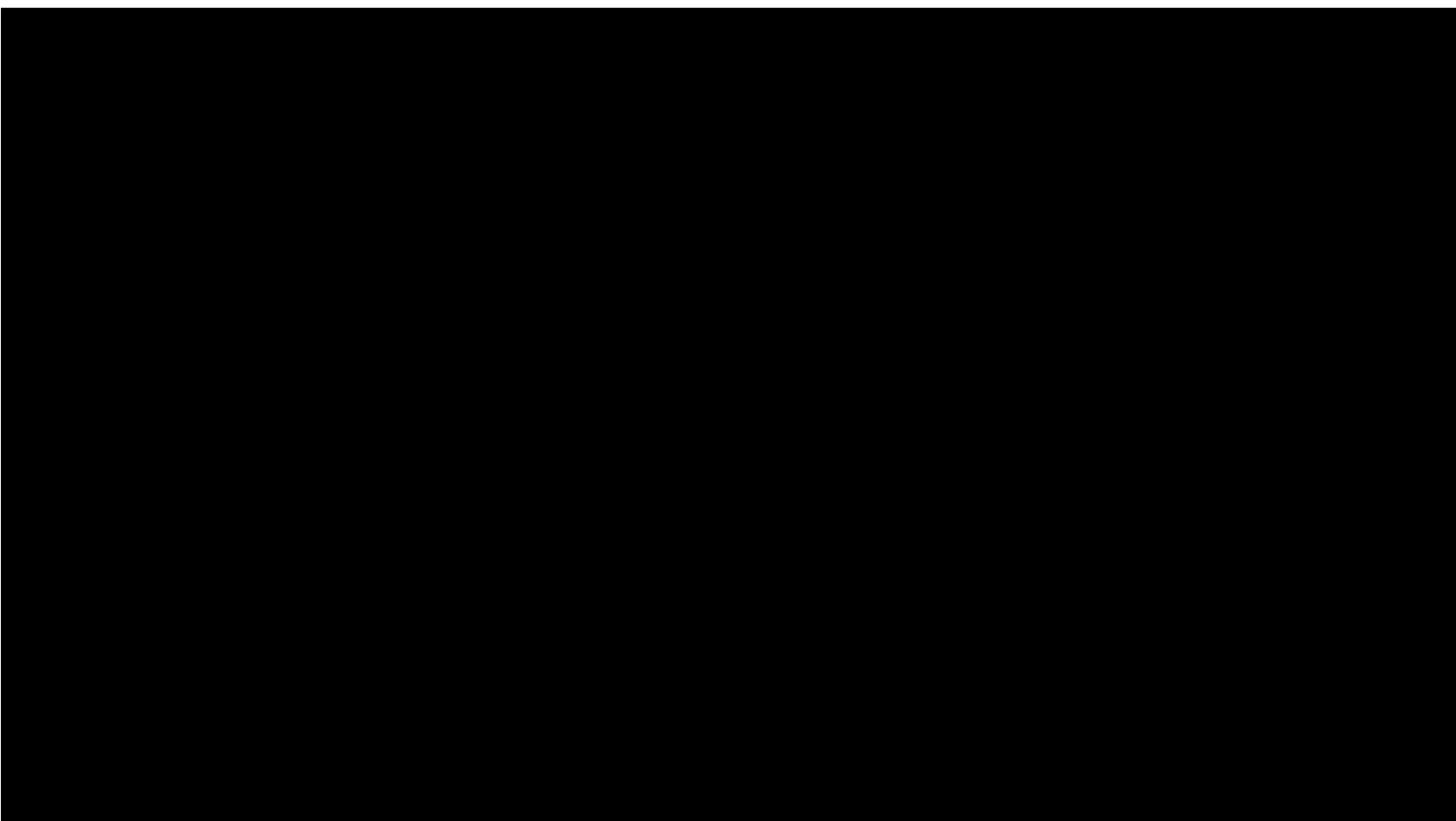
BRINGING A NEW LEVEL OF COLLABORATION TO VR

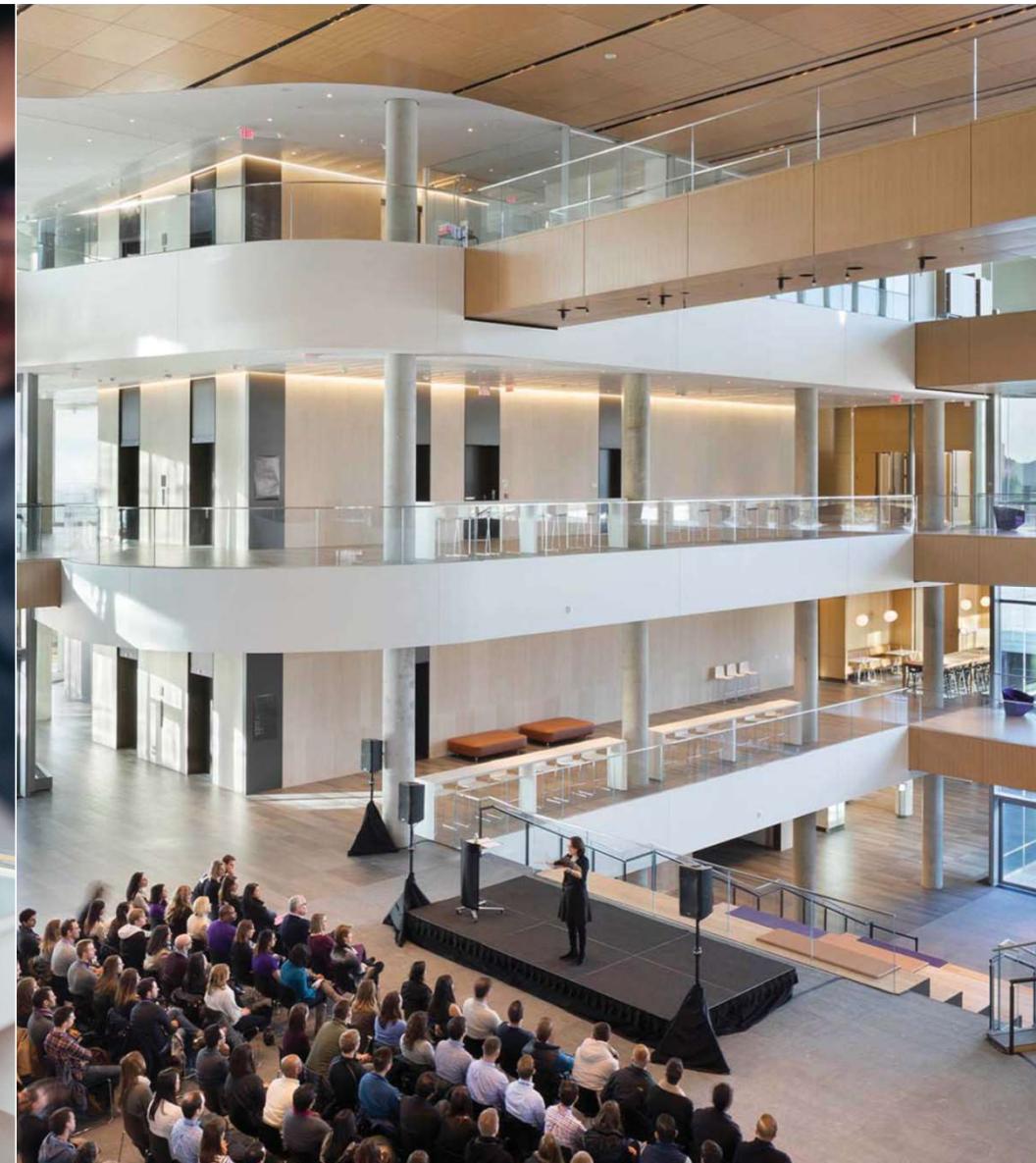
PHYSICAL PRESENCE



ASSET REPPLICATION

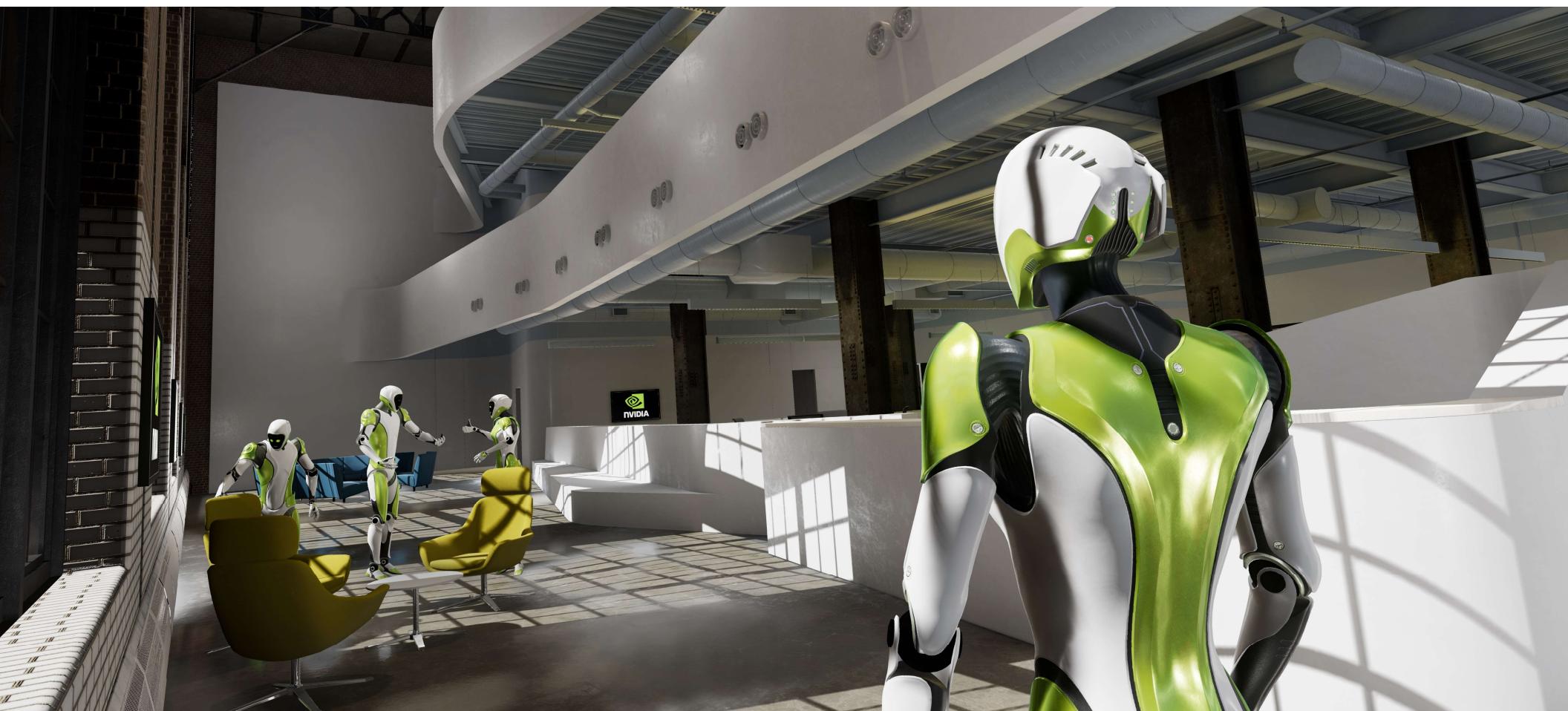






HOLODECK UPDATE

Architectural Design Review





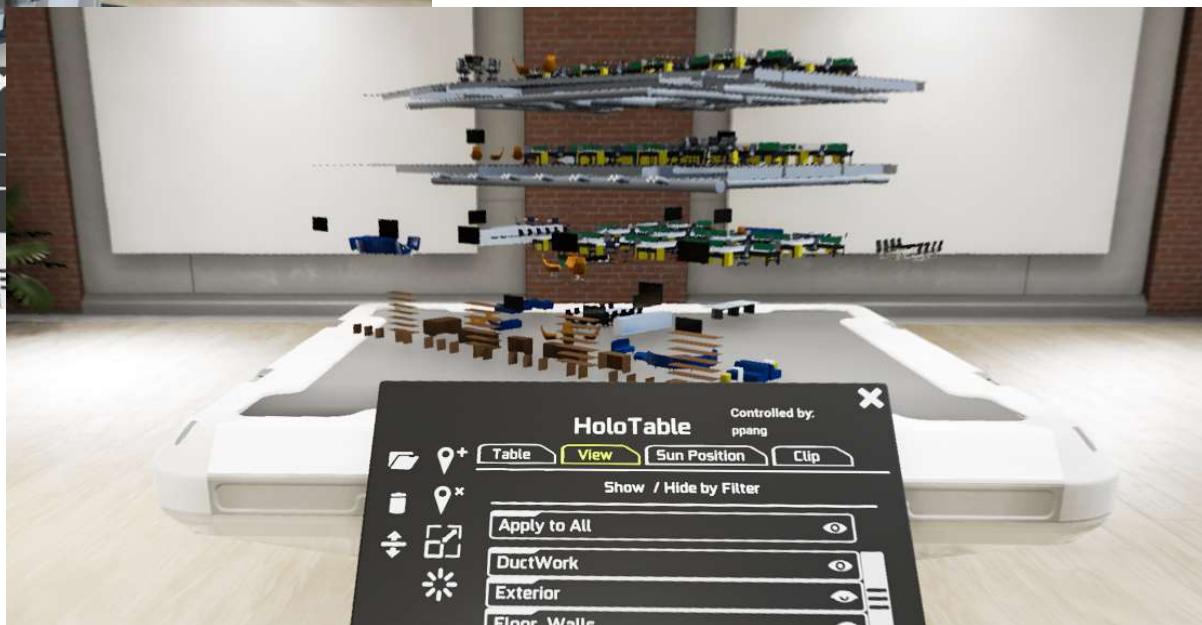
HoloTable

Controlled by:
ppang

Table View Sun Position Clip

Show / Hide by Filter

- Apply to All
- Floor_Walls
- Furniture
- Roof
- WINDOWS







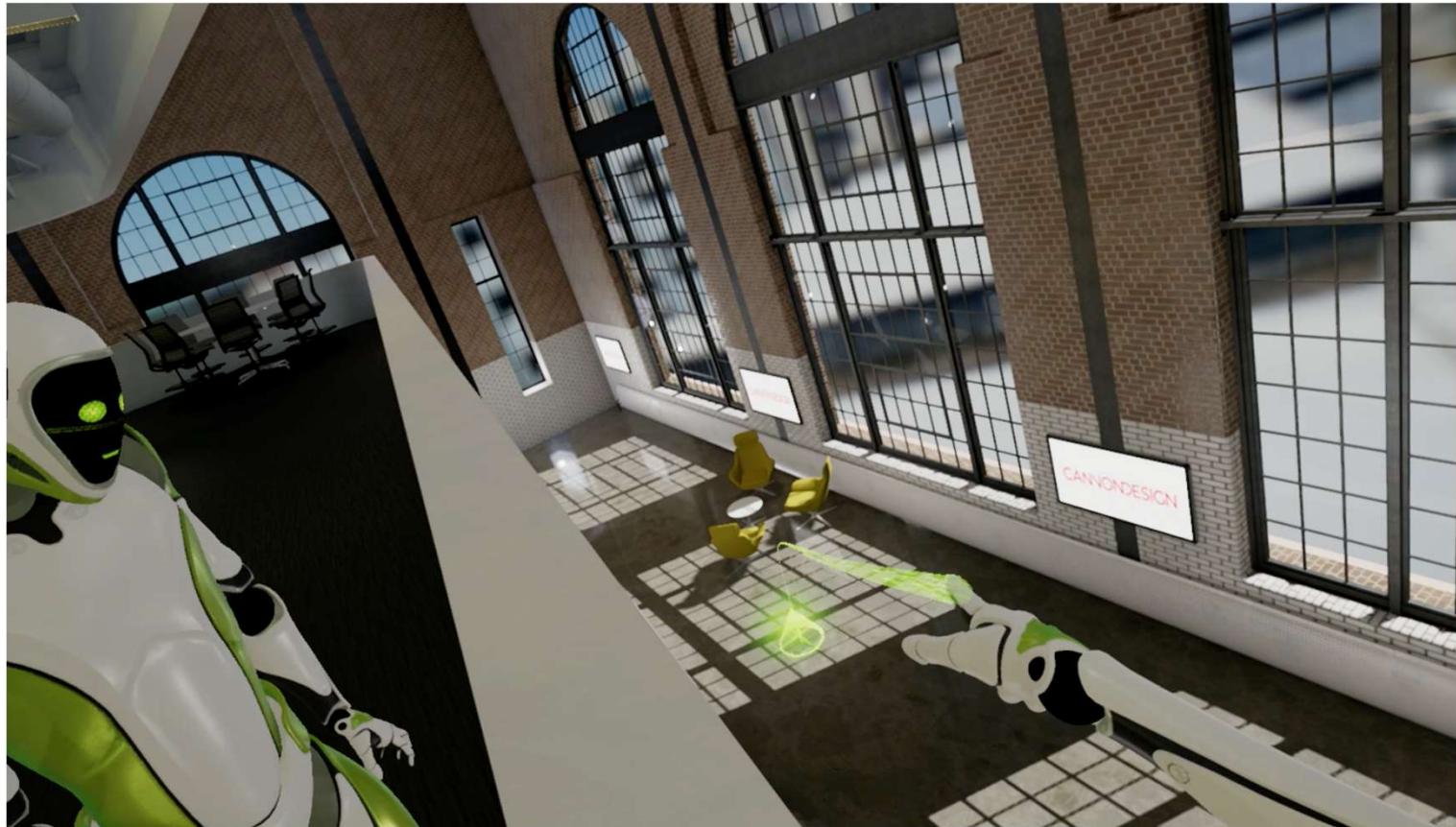
COLLABORATE ON HIGH FIDELITY MODELS

Review Design and Identify Points of Interest



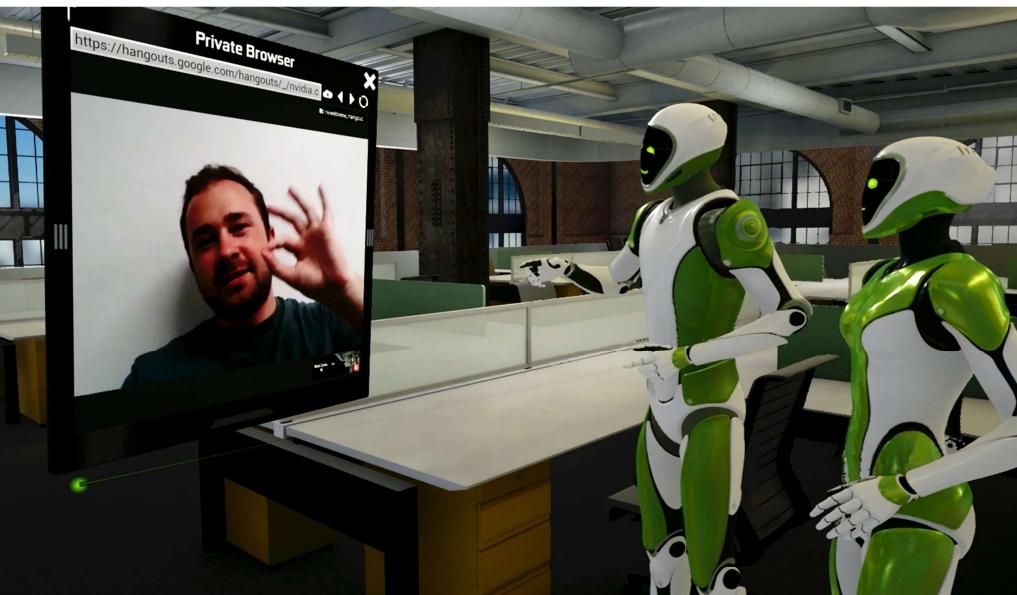
EXPLORE AND REVIEW ENTIRE BUILDINGS

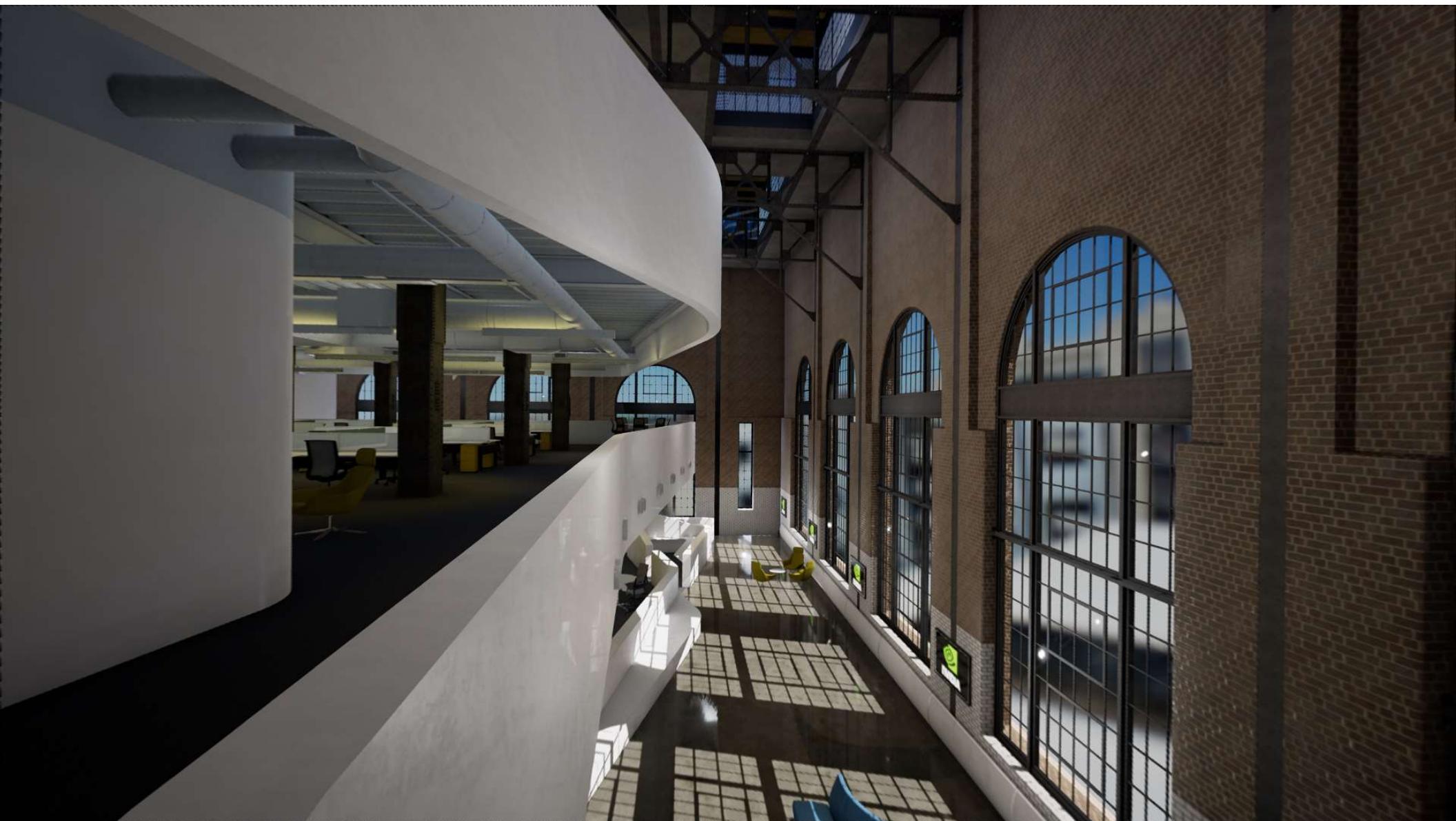
Teleport to Elevations



MIXING WORLDS FOR FLEXIBLE COLLABORATION

Google Hangouts and Full Web Browser in Holodeck





NVIDIA VRWORKS AUDIO

CHALLENGE

Need To Disambiguate These Cases



Elevator



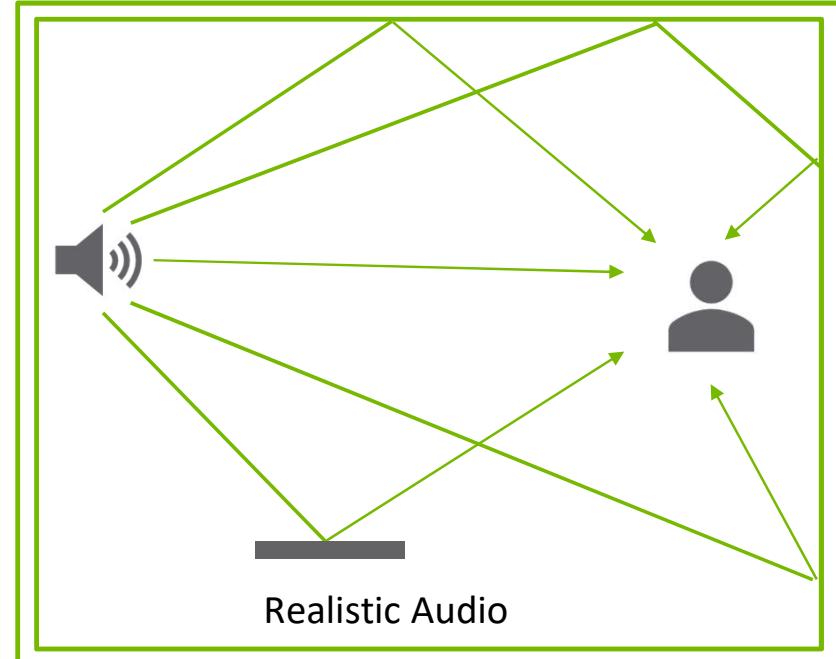
Symphony Hall



Open Space

SOLUTION

Physically-Based Audio Path Tracing



Turing Accelerated

NVIDIA HOLODECK: DESIGN LAB OF THE FUTURE

PHOTOREALISTIC GRAPHICS



INTERACTIVE PHYSICS



REAL-TIME COLLABORATION



GPU-ACCELERATED AI



EARLY ACCESS

3D Design experience
3ds Max, Maya, VISUALIZE plugins

High-end system (1080Ti, P6000, and above)
Apply at www.nvidia.com/holodeck



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