

OGI Immersive Space

Project Overview:

- **Project Name:** OGI Immersive Space
- **Duration:** Mar 2021 - Jul 2021

Abstract: The OGI Immersive Space project is a groundbreaking venture into the realm of Mixed Reality (MR) technology, aiming to create an immersive Olympic venue experience. This project goes beyond conventional approaches, integrating cutting-edge visualization, interactive elements, and LowPoly style modeling to bring the 2022 Beijing Winter Olympic Games to life.

Introduction: The OGI Immersive Space project seeks to revolutionize the Olympic experience by leveraging Mixed Reality technology. By designing and implementing an immersive Olympic venue, introducing key venues, and popularizing Winter Olympic sports, the project aims to transcend traditional boundaries and offer users an unparalleled and interactive encounter with the Games.

Methodology:

Venue and Sports Information Research:

- Conducted in-depth research on the four competition venues of the 2022 Beijing Winter Olympic Games.
- Extracted and designed visualization and interactive elements to enhance user engagement and understanding of the Olympic Games.

LowPoly Style Modeling:

- Utilized tools such as Maya and Substance Painter to create visually stunning LowPoly style models.
- Crafted detailed models of the Ice Cube and Shougang Ski Jump, ensuring a blend of aesthetics and functionality.

Unity Engine Development and HoloLens2 Deployment:

- Developed interactive scenes using the Unity engine to enhance the immersive experience.
- Deployed the interactive scenes to HoloLens2, ensuring accessibility and flexibility in user engagement.

Key Contributions: The project's key contributions lie in the fusion of MR technology, detailed LowPoly style modeling, and interactive scene development. By offering users a unique and interactive encounter with Olympic venues and Winter sports, the OGI Immersive Space project redefines how audiences experience major sporting events.

Outcomes: The OGI Immersive Space stands as a testament to the transformative power of technology in enhancing user engagement. Users can explore Olympic venues, gain insights into Winter Olympic sports, and interact with the Games in unprecedented ways, fostering a deeper connection with the event.

Future Directions: Future iterations will focus on expanding the scope of immersive experiences, incorporating additional venues and sports, and exploring opportunities for wider deployment. The project serves as a foundation for the evolution of immersive technologies in the realm of major sporting events.