Shubham Gupta
Junior, Computer Engineering

Project Objective

Researching Hand Tracking and 3D Gesture Recognition with the Leap Motion device.

Integrating 3D Gesture Recognition, Voice Recognition and Voice feedback into Virtual Director to create a more interesting and immersive experience for interacting with 3D Visualizations.

Approach

• Designing Gesture Recognition protocol using the Leap Motion Device
• Designing multi-client server model for allowing multiple devices to interact with 3D display.
• Creating web application for interacting with Virtual Director
• Adding Speech Recognition and voice feedback to make the experience more interactive.
• Adding in dynamic configuration of voice commands and audio feedback

Questions

• How does the Leap Motion device compare with other products out there?
• What are future applications for VR using Leap Motion and other tracking devices out there?
• What are the possibilities of using Leap in arenas other than VR?