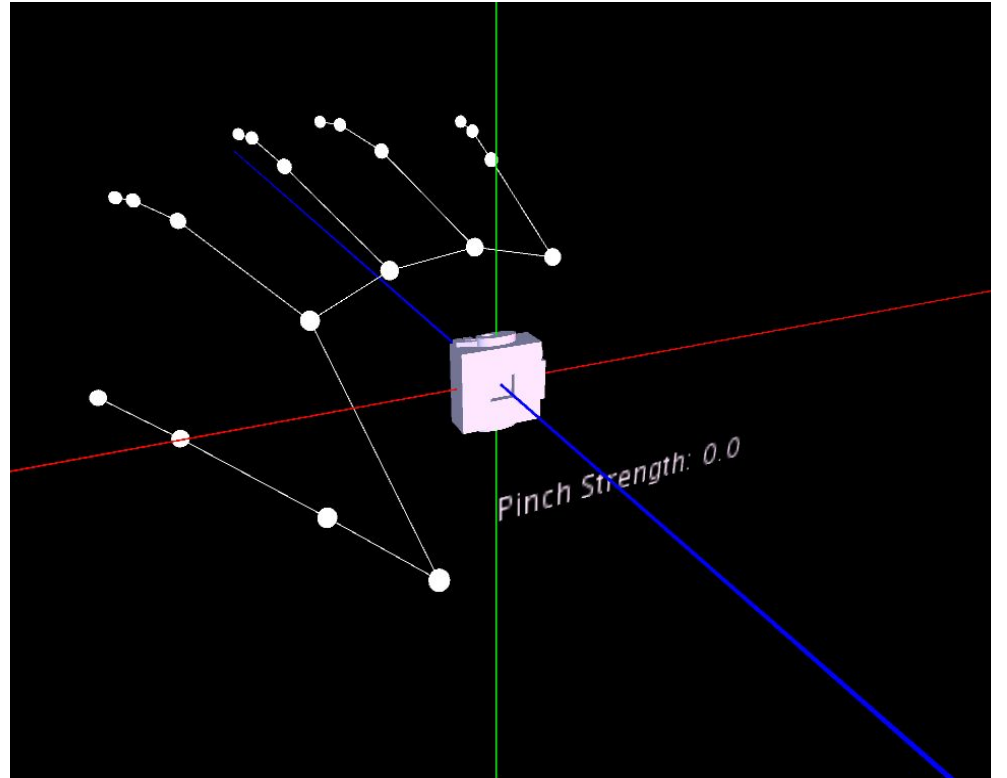




Summary

HoloView is an interactive semi-holographic display that responds to hand gestures. By pinching their fingers together, users can rotate the semi-holographic image inside.



Details

At its conception, HoloView manufactured and sold high quality semi-holographic pyramids intended for smartphone use. The beginning of 2016 saw a shift towards research, and the development of an interactive desktop display. By using a lighting technique similar to the famous "Pepper's Ghost" illusion, we are able to create what is seemingly a hologram with an ordinary computer monitor and a thin sheet of PETG plastic. Interaction is implemented in Java, using a Leap motion controller for input. The software recognizes the shape of a hand, and allows users to pinch and rotate the hologram. The program can display any 3D .obj file, which can easily be exported from SketchUp™. Future plans include adding more interactivity, adding a second "background" display, and scaling it up to the size of an average person.

