

Final Project Abstract

For our final project, we are interested in hooking our FPGA up to a camera that displays images on a screen in real time. The camera would have microphones placed on both sides to pick up stereo sound, and be mounted on a stand that follows the loudest speaking voice in its frame of vision. In addition to the camera tracking back and forth, the system would also be trainable to respond to specific voice commands to turn various video filters on and off for the image displaying on screen from the camera. The voice recognition would ideally be specific enough to respond to only a particular person's voice, once the system has been trained with that person speaking.