

MyePlay

Final Design

For our final design, we decided upon a single menu with all our options with a vertical spiral design. For our game, we implemented Pong [ref 2014c], a computer game simulating a tennis game where the users bounce a ball back and forth with sidebars on their sides. For our media player, we chose to incorporate a personal automated playlist of videos from YouTube. In the spiral menu, the options include Pong and all the videos in the playlist. To move through the menu, the user will look down to get the next incoming option at the top. This is to simulate an intuitive action of pushing the spiral down. To enter into each option, the user will close their eyes for two seconds and a sound notification will occur to indicate success. Again, the sound notification is necessary at every successful action to notify the user that an action and change has been made, especially since the user will be closing their eyes. We also included a white cursor to indicate to the user where the eye tracker thinks he or she is looking, and red threshold lines to indicate whether the eye tracker will think the user is looking up or down.

After the Pong game has been entered, the user with the eye tracker will control the left sidebar in the game, and the second player, whether it be the computer or another person, would control the right sidebar. One of our goals of MyePlay was to foster social interaction with loved ones, and they would be able to interact with one another with Pong. To initially start, the user with the eye tracker can close their eyes for two seconds, or the other player can press enter. The user using the eye tracker will control their sidebar by looking up and down, and the other player can control their sidebar by pressing the up and down buttons. To pause the game, the user can look at the upper quadrant for two seconds and a menu will drop down with the options to resume or exit. The user will look at the desired option for two seconds to select the option. If the user chooses to watch the videos in the personal automated playlist, the user will move through the menus to choose which videos have been saved previously. The user can select the video they desire by closing their eyes for two seconds and a sound notification will occur. Once they have entered the video, the video will automatically start playing. To pause the video, the

user can look at the upper quadrant, and again, a menu will drop down with a resume and exit option, which the user can choose from.