Kevin Whitney

Design Project 1

Entry Log – Monday 1/14/2019

This weekend, I improved my hand detection program to a spot where I was comfortable gathering photos for data. I moved forward with this, got my data, and retrained Google’s CNN, Inception, with my set of data. I now have working live detection with a reasonably decent success rate in detecting the hand gesture.

With this complete, this week I plan to move forward to using this central design and turning it in to the full application that I envision. The first step to this, and what I plan on doing this week, is to begin on the GUI for the application. Creating my menus, options, and layout, will allow me to easily know what features I need to work on and in what order. Past this step, I can then work on the code for things such as learning games, networking for login/high score saves, and overall incorporating the GUI in to my actual sign language translation.

The largest hurdle I have at this moment is that the neural network can not currently recognize a J or a Z. This is since I trained it with static images, and these are the two letters in the ASL alphabet that involve movement. I have several ideas on how to tackle this problem and also hope to complete that step this weekend, so I can spend the rest of the time of this project working on perfecting the user side application.