

6.111 Final Project Abstract

Timi Omotunde and Roberto Ramirez

E.D.I.T.H.

For our project which we have named E.D.I.T.H., we plan to use the Nexys 4 DDR to control a computer monitor or screen through hand gestures and voice commands. For any user, we plan to enable them to use a computer, for example, without a mouse or keyboard. Thus, we will use computer vision technology in order to perceive hand motions and train the Nexys to respond to specific audio commands. When the Nexys processes these commands it will display the order on the monitor. We plan to utilize reflective gloves to aid in hand recognition so that one hand can select an object and the other hand can control the object.