

Massachusetts Institute of Technology
Department of Electrical Engineering and Computer Science
6.111 - Introductory Digital Systems Laboratory

Final Project Check Off Sheet

Project Title: Enhanced Gaming and Pointing

Student Name: David Dryjanski, Andrew Pinkham

TA Name: Chris Forker

TA Signature/Date:

Design

- State transition diagrams, Block Diagrams, Code for Video module. (David)
- State transition diagrams, Block Diagrams, Code for headset module. (Andrew)

Functionality

- Video edge detection and conversion into correct movement control signal for the Xbox or computer. (David)
- Control of viewing direction using sensors mounted on head. (Andrew)
- Demonstrate playing a video game using the enhanced controls.

Discussion

- How does the video module determine in which direction the player should move? How does the headset interpret the sensor signals? How sensitive is the system?