

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

Final Project Check Off Sheet

Project Title: 3d Wireless Mouse

Student Names: Joseph Cheng, Shirley Li, Matthew Tanwanteng

TA Name: Charlie Kehoe

TA Signature/Date:

Design

- State transition diagrams, Block Diagrams, Code for Wireless Module (Shirley)
- State transition diagrams, Block Diagrams, Code for Accelerometer (Joseph)
- State transition diagrams, Block Diagrams, Code for PS/2 Interface (Matt)

Functionality

- Demonstrate RF units transmit and receive accelerometer data working. (Shirley)
- Demonstrate algorithm calculates desired cursor location working. (Joseph)
- Demonstrate PS/2 interface working. (Matt)
- Demonstrate cursor moves along with hand working.

Discussion

- What is the limiting time constraint of the system? How does the UART interface work? How does the system deal with integration drift? What is the purpose of the filter and how is it implemented?