

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

Final Project Check Off Sheet

Project Title: TextWand

Student Name: Andrew Campanella and Carlos Vila-Virella

TA Name: Jenny Lee

TA Signature/Date:

Design

State transition diagrams, Block Diagrams, Code for Keypad Input Module, Memory Buffer Module, and Keypad Module. (Andy)

State transition diagrams, Block Diagrams, Code for Accelerometer Input Module, Timer Module for strobed output, and LED Output Module. (Carlos)

Functionality

Demonstrate single keystroke entry acquisition from keypad and full alphanumeric keypad functionality from 16 button input working. (Andy)

Demonstrate correct display, interfacing with accelerometer and scrolling display on labkit LEDs working. (Carlos)

Demonstrate correct and smooth interface between keypad inputs to LED display working.

Discussion

How is accelerometer input used to output correct timing for LED display? Explain the functionality of alphanumeric keypad functionality and why certain methodology is used? What was the most challenging part of your project?