Final Project Check Off Sheet

Project Title: XtremiX
Student Names: Jehan deFonseka, Karen Chu
TA Name: Javier Castro
TA Signature/Date:

System Level

Fully integrated audio system that uses hand gestures to control recording and playback.

Gesture System (Karen)

State Transition Diagrams, Block Diagrams, Code for the Gesture System
Interface with ADC’s to read output from accelerometers and gyroscopes
Process accelerometer and gyroscope data in order to produce gesture code outputs which correspond to rotational, translational, (volume motion, and frequency motion) gestures.

Audio System (Jehan)

State Transition Diagrams, Block Diagrams, Code for Audio System
Store audio signal in ZBT RAM and playback audio by using buttons to play/record and switches to select memory location
Play multiple signals from RAM at the same time, controlled as above
Apply Z-transform filters to combine audio by using switches to enable and disable to filters.