

## 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.