EE371

Final Project Proposal

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For final project we will design and implement a music game. This system uses the four keys on a PS2 keyboard and a microphone as the user inputs, a camera as visual input and uses a monitor as visual output and a speaker as an audio output. User can use microphone to generate music scores and it was stored in RAM. The monitor will be divided into four columns. Each column will generate a rectangular box falling from the top to the bottom of the screen based on recording. When the box reaches the bottom of the screen the play has to type the key corresponding to that column. The image that the camera captures will be outputted to the upper right corner of the screen to show what the player is doing. The HEX displays on the DE1-SoC board will be used to show the player’s score.

We agreed to divide our work into three equal parts and communicate through a weekly meeting. We decided to share our work (codes and report files) via Google Doc.