**A2**

**Abstract:**

Our project will be a musical instrument which takes input from the user using force sensing resistors as input devices and which will produce an output of a high or low sound from the mount buzzer. The system is made to look like a set of bongo drums the user interacts with the system by hitting the top of the “drum” just as they would with an analog bongo drum. Underneath the top of each “drum” is a force sensing resistor and the system will make a different noise depending on which of the force sensing resistor is hit.

References:

* <http://theatticlight.net/posts/Reading-a-Rotary-Encoder-from-a-Raspberry-Pi/>
* <http://www.allaboutcircuits.com/projects/building-raspberry-pi-controllers-part-5-reading-analog-data-with-an-rpi/>
* <http://www.hertaville.com/interfacing-an-spi-adc-mcp3008-chip-to-the-raspberry-pi-using-c.html>
* <http://drumslive.com/dir/free-loops/>
* <https://www.youtube.com/watch?v=sUZZAhVIvEU>
* <https://pypi.python.org/pypi/Wave/0.0.2#downloads>
* <http://raspberrypi.stackexchange.com/questions/7088/playing-audio-files-with-python>
* <http://stackoverflow.com/questions/36215093/audio-changing-speed-during-gameplay>