Mechatronics design week 2
– Rowan Heinrich
20939081

1) Arduino –

a. Reading light, temperature and accelerometer sensors
b. Basic coding for reading inputs
c. Using Analog to Digital conversion on Arduino
d. Displaying information on the screen
e. Attempted controlling servo using computer
f. Received physical data from my home Arduino and sensors to display voltage readings
g. started thinking about PID control for setting servo position depending on user pressure input and physical pressure output.

2) Standards –

a. Looked briefly into basic coding conventions
    i. Documentation
    ii. Structure in codes(starting with a simple code and making it increasingly complex
    iii. Exceptions and protection

3) JavaScript

a. Linking images to a basic site
b. Learnt basic code conventions
c. Began considering GUI aesthetics

4) Team Communication

a. Spoke to mounting about protection of Arduino/pi chips
b. Spoke to sensors about using only 1 webcam to measure expansion
c. Housing about what cylinder they might be using
d. Spoke to Oscar and carl about how last years project

To-do

i) Correctly use servo to get accurate positions from an input
ii) Look into communication between the pi and Arduino
iii) Draft/brainstorm some GUI pages
iv) Continue doing JavaScript tutorials
v) Have a brief look into open cv
vi) Consider which libraries will be needed using Arduino
vii) Brief look into image processing and multithreading