**PROM Assessment Logbook Group 15 – Nicholas Allen, Antony Dyer, Yiwen Chen**

16/4/15: Meeting 1

Present: Nicholas Allen, Antony Dyer

Initial progress on project. Looked at hardware descriptions and datasheets. Read in data from a variable resistor to the Pi with the i2C.

Work for next session: Initial Thermistor circuit.

17/4/15: Meeting 2

Present: Nicholas Allen, Antony Dyer

Initial work on thermistor circuit and software to support it. Worked out correct hex values for all the i2c inputs. Worked on temperature monitor.

Work for next session: Nicholas implementing basic functions for all inputs, Antony works on filters. Initial main loop created. Github for project created.

22/4/15: Meeting 3

Present: Nicholas Allen, Antony Dyer

Initial work on skin conductance resistor circuit. Had trouble with reading in values (later found to be due to incorrect resistor value). Further work on core software.

23/4/15: Meeting 4

Present: Nicholas Allen, Antony Dyer

Initial work on respiratory rate resistor circuit. Again difficult to read values due to incorrect resistors. Begin work on respiratory rate counter in software.

24/4/15: Meeting 5

Present: Antony Dyer (Nicholas Allen absent due to personal reasons)

More work on respiratory rate counter. Pretty much finished at this point, very little was changed later on. Only thing wrong with RR is resistor value. Calibration software is worked on and is close to completion.

29/4/15: Meeting 6

Present: Nicholas Allen, Antony Dyer

Initial work on heart rate monitor. Later scrapped due to using incorrect opamp circuits. As such the output from the opamps was minimal. Initial work on heart rate counter in software, very similar to respiration counter.

30/4/15: Meeting 7

Present: Nicholas Allen, Antony Dyer

Reworked heart rate monitor with correct opamp circuit. Confused as to why it still refuses to work. Later find that we haven’t wired the opamp into power. Antony starts initial work on graph plotting. Main software is now almost feature complete.

1/5/15: Meeting 8

Present: Nicholas Allen, Antony Dyer

Worked on button input circuit. Easy to implement in this case. Implemented switch debounce software to ensure there are no ‘ghost’ signals. Graph plotting progressing well. Implemented file output writing.

6/5/15: Meeting 9

Present: Antony Dyer (Nicholas Allen absent due to personal reasons)

Further general work on many aspects of the system. Graph plotting nearly complete.

7/5/15: Meeting 10

As meeting 9.

8/5/15: Meeting 11

Present: Nicholas Allen, Antony Dyer

Penultimate meeting before submittal. Work is completed on all aspects, including finally sorting out resistor values. All aspects of the system now work as expected and give sensible values except graph reading.

11/5/15: Meeting 12

Present: Nicholas Allen, Antony Dyer

Final meeting. Graphing now fully implemented. Work submitted.