

LOG BOOK RECORD: SESSION #7

Date & Time: 5th April 2018 9:00

General Comments:

Activity 1 - Task planning and system design changes - see

[TASK_PLAN_76543_QB00700_BRANCH_Q.pdf](#) .

Planned work v achieved work during session #6 was as planned although I did not

- Suggest improvements to enhance user experience
- Suggest improvements to handle unexpected events

Activity 6 - System in operation

I continued documenting the final system, including taking photographs, screen grabs etc.

Issues encountered and solutions with justification:

- (1) Taking photographs of the Matrix HP4988 board without reflections/glare from the clear acetate cover proved difficult. The solution that I used was to make a wire frame cube to cover the HP4988 board and I covered the cube with a white sheet to diffuse the light. I then took photographs at an angle to avoid reflections.
- (2) Documenting the software, I found a bug in key_task where an "=" was used in place of an "&" when checking that all 4 samples of the switch readings were the same. This was not apparent when running on the HP4988 board, probably because the switches do not bounce much and 2 samples must be the same before a switch press is indicated.
- (3) Not a bug as such, more of something annoying that I found while operating the system. When the egg was done, canceled or overcooked the system returned to the SET TIME screen with the ideal cooking time (3½ minutes). I changed the operation to use the previously set time when returning to the SET TIME screen. I also changed the operation of the CANCEL key in the SET TIME screen to set the time to 2 minutes.

Action list for the next session:

- (1) Continue writing the operating instructions.
- (2) Continue Documenting the system in operation.
- (3) Suggest improvements to enhance user experience
- (4) Suggest improvements to handle unexpected events