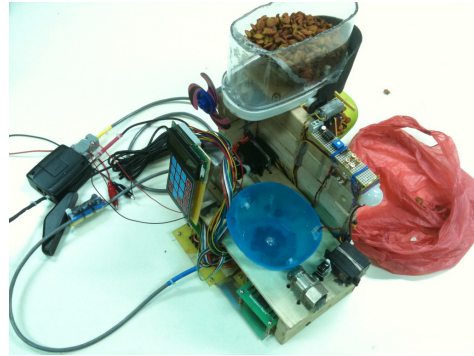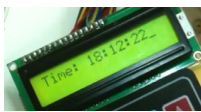# The PETS system
Team 1-12

This system was essentially designed to help owners of ensuring that their pet are fed without fail, while they are pre-occupied or on the move.

Many innovative intelligent features had been incorporated.

Elements of the system:

(1) Real time clock; user can set multiple schedules according to real time.

(2) Smart dispensing; besides being triggered by timed schedule, food will only dispense when the pet is around. If the pet decides not to eat after a pre-allocated time, the food will not dispense anymore.
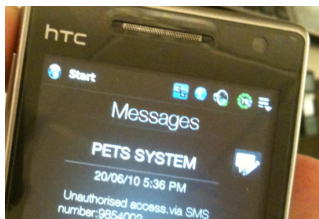

(3) Precise controlled dispensing;
If a huge leftover resides on the food bowl at the next dispensing, the system will only dispense till the brim without overflowing.

(3) Clearing system - the food and water are cleared at set timed schedule to ensure that there is a fresh readily supply.

(4) Remote controlling via SMS. Example, the "*D" SMS command sent to the system, will trigger the dispensing mechanism.
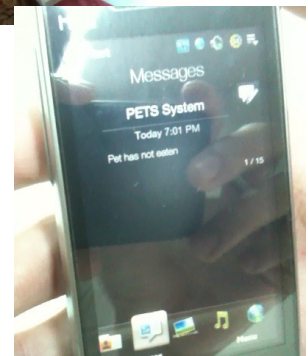

(5) SMS alert. Example, if an intruder tries to send an SMS command to tamper with the system, an SMS is sent to the owner about the intrusion and the intruder's hand phone number.

(6) Intelligent monitoring & SMS response. Owner can monitor their pet's feeding habit. Sending an "*L" SMS command to the system, a message of how much the pet has eaten will be received. Example, if the bowl is left untouched, the user will receive an SMS that his pet has not eaten.

(6) Security, password-locked; to prevent tampering.

(7) Ventilation & Lighting; which provide ventilation & lighting according to ambient conditions.

(8) Green feature; the system will only be triggered at the presence of the pet.