



MIDDLE EAST TECHNICAL
UNIVERSITY

ELECTRICAL & ELECTRONICS ENGINEERING
WEEKLY REPORT 10
EE 494

CAT FEEDING PROJECT

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1 Works Done

- Literature research on SIFT.
- Shopping for new hard cover for the system.
- Electronic wiring and transferring parts to the new hard cover.
- Testing the battery and charging.
- Helping with the design and implementation of new system's mechanics. Such as reservoir, food flow mechanism and the flow tube.
- Preparing a backbone for the critical design review evaluation report.

2 Future Work

The food system is checked and the errors are fixed in this week. The food flow is not controllable in our old system, therefore it is not reliable. This problem is fixed by rearranging the screws and the placement of the rotating apparatus. Now it become more reliable. The flow amount is more or less same in every trial and the there is almost no waste food. Planned future work is given as follows:

Future Works:

- Thinking of a more robust food reservoir and implementing it to the system.
 - Pringles cans
 - Rectangular prism made up of model material
- Finishing the electronic part of the system
- Dog repellent mechanism design and implementation
- Implementing the weight sensor
- Relay triggered charge mechanism design and implementation
- Fixing broken camera socket problem
- Mechanical placement of camera
- SIFT data set creation
- SIFT algorithm development
- SIFT algorithm tests, if needed enhancements
- Finishing testing of the components that make up the electronics subsystem
- Preparing test results, drawings, tables for the critical report
- Changing the old outer box with a new one
- Rearranging the connections between the electronic devices
- Creating class structure for each written sub-component codes

References