Faculty Meeting
Tuesday April 17, 2007
Team D.E.A.D.S
Presence: Dr. Johnson, Justin Dick, Ngon Du, Lassen Loop, Travis Taylor, Dr. Wall

**Agenda:**

1) Dr. Wall’s suggestion for control system block diagram
2) Critiques on Preliminary Design Presentation

- Dr. Wall’s suggestion for the overall system diagram that relates to the central Processing Unit:
  - Each of the following units will communicate directly to the central processing unit:
    - Receiver to processing unit – via digital communication
    - Sensor to processing unit – via digital communication

**Data conversion requirements:**

- Processing unit to sensor – digital to analog conversion
- Processing unit to solenoid - digital to analog conversion
- Processing unit to timing knob – via analog communication

- Control technology analysis:
  - Basic Stamp Module was the most favorable:
    - low power consumption
    - ease of integration: no need for pc board design
    - availability of pins for data communication/transfer
    - cost within project’s budget
    - availability of development kit (included)

- Critiques on Preliminary Design Presentation:
  - Fix up the font: larger font, avoid using Time Roman font; use Arial
  - Avoid using complete sentences: don’t want audience to read slides; want them to pay attention to presenter
  - Project specifications: size (don’t need “must have”)
  - Dear - misspelling; should be “Dear”
  - Performance: don’t need weaknesses and strengths at this point
  - Glo labs pictures: include text for sensor in closure as well as for sensor without closure
- Explain that some sensors have built-in communication vs. sensors without built-in communication
- Print tips: 4 slides per page and in color
- Controller options:
  - Replace team’s recommendation instead of team’s solution
  - Use Basic Stamp Module: explain pros
    - ease of integration -> socket to socket connection
    - cheap price
    - availability of development kit
- Preliminary budget: Present the budget in a table format as followed:

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit Cost</th>
<th>Quantity</th>
<th>Budget</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

- Explain costs associate to 1-time charge/expenses or non-recurring cost
- Separate non-recurring cost to another table

- Schedule: need bigger font
  - Include specific dates for each highlights

- Questions to ask client:
  1) Any intermediate review of the prototype?
    - Email/contacts with client about once per 2 weeks
  2) How many sensors per receiver/cannon client wants to have a working network

**Meeting time and place:**
- Civil Engr. Conference Room #111
- Today at 4:30 pm