MEDSense: An Accessible Pill Cap Dispensing/Cutting Device

Week 12 (4/12/08-4/118/08) Report

Team Members:
Ashley Martin
Ryan Pogemiller
Tim Coons
Chris Falkner
Project Overview

Side View with Bottle Upright

Internal View of Cap During Operation
Project Overview
Work Completed- Mechanical Arrangement
Work Completed- Mechanics

- Attached
  Exit Chute
Work Completed

- Successful Pill Cutting
Work Completed- Programming

- Tested and fine tuned motor code
- Finished work on text-to-speech module
- Finished code on infrared detector
Work Completed - Programming

- Finished code on visual notification (LEDs)
- Nearing completion of alarm system
Work Completed - Electrical

- Completed PCB Design
- Battery Life Indicator
- Current Amplification Circuit
<table>
<thead>
<tr>
<th>Task</th>
<th>Duration</th>
<th>Start Date</th>
<th>End Date</th>
<th>Responsible Partners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish Alarm System</td>
<td>2 days</td>
<td>Fri 4/18/08</td>
<td>Mon 4/21/08</td>
<td>Chris and Ryan</td>
</tr>
<tr>
<td>Design Layout of LEDs</td>
<td>1 day</td>
<td>Fri 4/18/08</td>
<td>Fri 4/18/08</td>
<td>Chris and Ryan</td>
</tr>
<tr>
<td>Drill LED holes</td>
<td>2 days</td>
<td>Mon 4/21/08</td>
<td>Tue 4/22/08</td>
<td>Ashley and Tim</td>
</tr>
<tr>
<td>Attach PCB</td>
<td>1 day</td>
<td>Wed 4/23/08</td>
<td>Wed 4/23/08</td>
<td>Ashley and Tim</td>
</tr>
<tr>
<td>Attach Bluetooth</td>
<td>1 day</td>
<td>Wed 4/23/08</td>
<td>Wed 4/23/08</td>
<td>Ashley and Tim</td>
</tr>
<tr>
<td>Attach Text-To-Speech</td>
<td>1 day</td>
<td>Wed 4/23/08</td>
<td>Wed 4/23/08</td>
<td>Ashley and Tim</td>
</tr>
<tr>
<td>Machine bottle connection</td>
<td>2 days</td>
<td>Thu 4/24/08</td>
<td>Fri 4/25/08</td>
<td>Ashley and Tim</td>
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<tr>
<td>Assemble all other components</td>
<td>2 days</td>
<td>Fri 4/25/08</td>
<td>Mon 4/28/08</td>
<td>All</td>
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<tr>
<td>Debugging</td>
<td>7 days</td>
<td>Wed 4/23/08</td>
<td>Thu 5/1/08</td>
<td>Chris and Ryan</td>
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Hours Worked

- Chris-16
- Ryan-18
- Ashley-10
- Tim-10