Work Completed

During the past week, Adam was able to construct the components for the linkage bar and cam subsystems. Some scrap aluminum (courtesy of the machine shop) was used to create some of the necessary components. Also, the bearing blocks he needed arrived, and he acquired a threaded rod to be used for linkage bar attachment points.

![Figure 1: Frame attachment plate, linkage bar connection point (top) and cam](image)

Sarah was able to create the touch switch out of the sample enclosure from OKW Enclosures, a foam sample from Stephenson & Lawyer, Incorporated, and the switch ordered from Mouser. She was also able to begin her work on the squish switch in a similar manner.
Tom was able to get the speaker box into position. A small setback occurred with the temporary collapse of the frame while trying to attach the box to the frame, but glue was reapplied and the device was secured preliminarily. Some of the extra 80/20 parts that came in are going to be used to secure the base of the speaker box into place as an added safety feature. Also, he was able to locate the parts needed to create the mounting bracket for the CD player.
41 Determine Optimal Cam Size  6 days?  Sun 2/26/06  Fri 3/3/06
42 Determine Linkage Bar Length  6 days?  Sun 2/26/06  Fri 3/3/06
43 CONSTRUCTION                       54 days?  Mon 1/30/06  Fri 3/24/06
44 Reinforce Internal Chair Frame at Linkage Bar Attachment Point  12 days  Mon 2/27/06  Fri 3/10/06
45 Reinforce Base for Motor Attachment  12 days  Mon 2/27/06  Fri 3/10/06
46 Attach Motor                          12 days?  Mon 2/27/06  Fri 3/10/06
52 CAM                                     15 days?  Fri 3/3/06  Fri 3/17/06
53 Design Cam                             15 days  Fri 3/3/06  Fri 3/17/06
54 Construct Cam                          15 days  Fri 3/3/06  Fri 3/17/06
55 Attach to Motor                        15 days?  Fri 3/3/06  Fri 3/17/06

Timeline 1: Work originally scheduled for this week.

Future Work

During the next week, Adam hopes to get the chair rocking with the attachment of the motor and linkage bar into their respective places. Also, the control tower pieces can be cut and built as soon as the 80/20 arrives. Sarah should be able to create the squish switch for the user controls. Also, hopefully she can rig up the switches and circuit breakers into their box, as well. Tom hopes to be able to complete the securing of the speaker box into place with the attachments of the 80/20 parts to the base of the box and to run the wires to the proper spots. Also, he hopes to secure the CD player in its box and mount it on the control tower once the parts are cut for it.

Timeline 2: Work originally scheduled for this week.

Project Review

The project is lagging behind a bit just because of our power outage during the last week before spring break. With the outage and its uncertainty of when the power would come back, most of the teams lost a little bit of build time because of that. We’re just going to have to pick up our pace a bit this week to get back on task, which is doable.
<table>
<thead>
<tr>
<th>Task</th>
<th>Duration</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design, order parts</td>
<td>2 days</td>
<td>Wed 2/22/06</td>
<td>Thu 2/23/06</td>
</tr>
<tr>
<td>Create touch switch</td>
<td>4 days</td>
<td>Fri 2/24/06</td>
<td>Mon 2/27/06</td>
</tr>
<tr>
<td>Create squish switch</td>
<td>4 days</td>
<td>Tue 2/28/06</td>
<td>Fri 3/2/06</td>
</tr>
<tr>
<td>Wire into system</td>
<td>1 day</td>
<td>Fri 3/2/06</td>
<td>Fri 3/2/06</td>
</tr>
<tr>
<td>Audio Components</td>
<td>15 days</td>
<td>Fri 3/3/06</td>
<td>Fri 3/17/06</td>
</tr>
<tr>
<td>Secure CD player</td>
<td>1 day</td>
<td>Fri 3/3/06</td>
<td>Fri 3/3/06</td>
</tr>
<tr>
<td>Install Speaker Box</td>
<td>1 day</td>
<td>Fri 3/3/06</td>
<td>Fri 3/3/06</td>
</tr>
<tr>
<td>Run wiring, determine final positions</td>
<td>14 days</td>
<td>Sat 3/4/06</td>
<td>Fri 3/17/06</td>
</tr>
<tr>
<td>Install circuit breakers</td>
<td>1 day</td>
<td>Fri 3/3/06</td>
<td>Fri 3/3/06</td>
</tr>
</tbody>
</table>

**Timeline 3:** Updated future timeline.

**Hours Worked**
- Adam Rauwerdink: 10
- Sarah Philo: 10
- Tom Dabrowski: 11.5