Elevator Controller for Individual with MS

Client: 
Dr. John Fleming

Team Members: 
Ashley Matsick (Co-Leader)  
Sara Karle (Co-Leader) 
Michele Lorenz (Communicator)  
Peter Strohm (BWIG)  
Alison Boumeester (BSAC)

September 15-21, 2006

Problem Statement:
Our project involves the integration of controls into a device capable of covering the distance from a wheelchair to an elevator call button in the x, y and z directions, then exerting a horizontal force sufficient to successfully push the call buttons in both the standard elevator car and the corresponding hallway. The controls to be integrated must be operable by stimulus generated by movement no lower than the user’s neck.

Last Week’s Goals:
- Meet on Friday to determine a regular weekly meeting time, discuss the constraints of the project and begin researching/brainstorming.
- If necessary, set a meeting with the client to discuss any potential changes in the project from last semester.

Summary of Accomplishments:
- Met with advisor on Sept. 15th to begin project discussion
- Chose weekly out of class meeting time
- Met on Monday to create first draft of PDS

This Week’s Goals:
- Contact Dave about potential meeting times to discuss his constraints for the project
- Research voice activated technology (Sicare)
- Research potential switches: need one toggle switch and one momentary contact switch
- Meet as a team to familiarize new members with constructed prototype
- Brainstorm designs for covering/weatherproofing device

Project Difficulties:
No difficulties to date.

Activities:

<table>
<thead>
<tr>
<th>Date</th>
<th>Person/Group</th>
<th>Activity</th>
<th>Time Spent</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.15.2006</td>
<td>Team</td>
<td>Class time – established weekly availability, met with advisor</td>
<td>1.50 hr</td>
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<tr>
<td>09.18.2006</td>
<td>Team</td>
<td>Drafted PDS</td>
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<tr>
<td>09.20.2006</td>
<td>Sara</td>
<td>Progress report</td>
<td>0.25 hr</td>
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