Title: Device for acute rehabilitation of the paretic hand after stroke (Project #20)

Team: Medical College of Wisconsin: Dr. Michelle Johnson (client)
    Sasha Cai Lesher-Pérez (Leader)
    Mike Socie (Leader)
    Carly Brown (Communicator)
    Karissa Thoma (BSAC)
    Justin Lundell (BWIG)

Date: October 27, 2006 – November 2, 2006

Project Design Statement:
    We will design a portable device that will facilitate hand rehabilitation in the acute phase (first three months) after stroke; the device will consist of a simple attachment to the impaired arm, comfort for the user and accommodations for almost complete universal use.

Restatement of Team Goals:
    • Research materials
    • Order/Purchase some materials
    • Work on internal details of final design
    • Begin fabrication

Individual Goals:
    • Sasha Cai: Research materials for computing/running game/interaction
    • Mike: Research monitors, hose clamps for arm braces
    • Carly: Research material for “therapy cylinder” (possibly PVC)
    • Karissa: Look for donor/cheap purchase of laptop
    • Justin: Research materials for base tray

Summary of Accomplishments:
    1) Visited physical therapy
    2) Set appointment with Client for 11/3
    3) Started specific internal designs for final design
    4) Gained some idea of materials

Team Goals:
    • Research materials
    • Start purchasing materials
    • Start fabrication

Difficulties:
    None this week.
Activities:
10/27/06 – In class meeting: discuss materials/meet with Mitch 1 hour
10/30/06 – Team meeting: materials/design concepts 1.5 hour
11/1/06 – Team meeting with Mitch: Mid semester eval’s 0.75 hour

Budget:
Total budget: $750
Spending this week: $0
Total budget remaining: $750

Timetable

<table>
<thead>
<tr>
<th>Project Tasks</th>
<th>Due Date</th>
<th>Team Hours Work</th>
<th>Mike</th>
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<tbody>
<tr>
<td>Progress Report</td>
<td>Every Thursday</td>
<td>3</td>
<td>1.5</td>
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<tr>
<td>Solidworks of Designs</td>
<td>October 15, Sunday</td>
<td>10</td>
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<tr>
<td>Midterm Powerpoint</td>
<td>October 18, Wednesday</td>
<td>2</td>
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<td>Midterm Presentation</td>
<td>October 20, Friday</td>
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<tr>
<td>Midterm Paper</td>
<td>October 22, Sunday</td>
<td>10</td>
<td>4</td>
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<tr>
<td>Clinical Visit</td>
<td>TBA</td>
<td>5 TBA</td>
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<tr>
<td>Client Visit</td>
<td>TBA</td>
<td>5 TBA</td>
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<tr>
<td>Components/Materials</td>
<td>October 30, Monday</td>
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<tr>
<td>Manufacturing</td>
<td>November 17, Friday</td>
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<tr>
<td>Testing</td>
<td>December 1, Friday</td>
<td>15</td>
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<tr>
<td>Final Paper</td>
<td>December 4. Monday</td>
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<td>Final Powerpoint</td>
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