Progress Report 8: October 27 to November 2, 2006

Title: Automated animal board for positioning during ocular imaging and photography
Client: B’Ann Gabelt, MS.
Advisor: Wally Block, Ph.D.
Team Members: Nathan Kleinhans (Leader)
Laura Piechura (Communications)
Kellen Sheedy (BSAC)
Holly Liske (BSAC)
Dhaval Desai (BWIG)

Problem Statement (created using information from design project website)
Fine adjustments in the positioning of the eye are necessary to obtain quality scans of the retina and nerve. Currently, an automated head holder device exists for positioning the head of the animal. However, concerns about possible neurological damage during rotation of the head make it desirable to develop a device that can rotate the whole animal.

Restatement of Team’s Goals
• Order materials to begin prototype construction
• Continue to order materials as needed and begin construction when they arrive
• Divide team into subgroups to focus on specific design aspects

Individual Goals
• Nathan: Begin construction when materials arrive, research center support/joints and Progress Report for Week 6.
• Laura: Research possible electronic configurations to allow rough and fine adjustments.
• Holly: Begin construction when materials arrive and research center support/joints.
• Kellen: Research possible electronic configurations to allow rough and fine adjustments.
• Dhaval: Research possible electronic configurations to allow rough and fine adjustments and update website.

Summary of Team Accomplishments
• Divided team into two groups: Nathan and Holly will focus on general construction, while Dhaval, Kellen, and Laura will focus on the electronics (remote, wiring, and switches).
• Our team went to Home Depot on Monday, October 30th, 2006 to get ideas for center supports and ball and socket joints for the positioning board.

Project Difficulties
No difficulties were experienced regarding the project this week.

Expenses

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<tr>
<th>Item</th>
<th>Price</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Linear Actuator</td>
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<td>x 2</td>
<td>$198.00</td>
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<td>Actuator Bracket</td>
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<td>2’x3’ sheet HDPE</td>
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Total: $276.30