Assistive Jumping Device and Travel Computer Mount

Progress Report:
Week 8 (3/17/09-3/24/09)

By: Kelly Valentine
Caitlin Martin
Blaine Ericson
Travel Computer Mount

The travel computer mount will allow Sean to safely and effectively use a Dynavox computer while traveling in a car.
Project Status

• The computer mount is complete
• In the process of developing a user manual

• Release Form Obtained
  • Needs to be signed by family and advisor
Assistive Jumping Device

The AJD will allow Sean to safely jump on a trampoline.
Progress Completed

• Testing in Dr. Peterson’s Lab at UCHC
  • Trolley on Dr. P’s gantry crane
  • Bungee attachment
  • Bungee cord testing
    • Determined ideal length/amount of cord to use
  • Troubleshoot potential problems
    • Change length/amount bungee
    • Length of vertical rail between user’s legs
    • Leeway room on vertical rail
  • Vertical Rail Support (bending)
    • Added support beam to backing
Progress Completed

Cement / Installation Updates:

- Crane to be ordered Thursday
- Cement/excavation ordered Thursday

Meeting with Stengleins Wed. 3/25 @ 6pm
Pictures of Progress
Bungee Cord Testing
# Bungee Testing Data - Extension

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The graph shows the relationship between weight (lbm) and length (in) for different extension factors. The values correspond to the data in the table.
Work To Be Done

- Crane and Cement Installation
- User Manual
- Release Form Signed
- Possible Adjustments:
  - Vertical Rail Support
  - Seat Bracket
  - Crane Trolley – need a massive wrench!
Hours Worked

- Caitlin – 15 hours
- Blaine – 9 hours
- Kelly – 14 hours