Assistive Jumping Device and Travel Computer Mount

Progress Report:
Week 4 (2/10/09-2/17/09)

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.
Progress Completed

• Attachment plate painted to match Daessy base
• Successfully tested in a vehicle with weight
• Successfully tested in Stenglein’s vehicle with VMax
  – minor adjustment: L-bars will be shortened by 2 inches
Progress Completed

Completed mount assembly.

Mount secured in vehicle.
Work To Be Done

• L-bars must be shortened by 2 inches
• Release forms must be filled out
• Give the mount to the client
• Start preparing a user manual and updating the final report
Budget

No More Money Will Be Spent On The Computer Mount!!!!
Assistive Jumping Device

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

• Vertical trolley bracket
  • Bracket constructed of scrap metal (no $ spent)
  • Bracket consists 4 metal pieces secured to the sides and top of the chair frame
  • Top of the bracket in bolted through the metal frame along the top of the harness
  • Bottom of the bracket is secured by bolts and pre-existing threaded holes along the sides of the harness
Progress Completed

Back of the harness with assembled bracket.

Side view of the harness sliding up and down vertical rail.
Progress Completed

• Crane Trolley assembly
  – Trolley assembled
  – Rubber washers added to eliminate “swing”
    • This will secure the vertical rail and prevent angular rotation

Assembled trolley.
Progress Completed

• Bungee Research
  – Searching for a bungee strong enough to suspend the harness
  – Awaiting responses from companies

• Cement / Installation Updates
  – Updates from companies
Work To Be Done

- Seat re-upholstery
- Seat belt attachments sewn on pelvic harness
- Begin designing bracket to attach vertical rail to crane trolley
- Find bungee cords to suspend harness
- Review video of Sean jumping to determine whether modifications are necessary
Budget

• Still to be Ordered:
  • Crane (with Bolting)
    • Getting new quote with shipping and anchoring bolts
  • Cement Installation
    • Awaiting estimate from L&M concrete
  • Crane Installation
    • Optimistically we can do this ourselves but may need to rent equipment
  • Bungees
    • Awaiting contact from Novabraid
Hours Worked

- Caitlin – 18 hours
- Blaine – 12 hours
- Kelly – 9 hours