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

• The Travel Computer Mount Has Been Completed
Progress Completed

Completed mount assembly.
Work To Be Done

• Begin working on the user manual for the computer mount
• Obtain release forms so that the device can be given to our client
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

• Researching bungee cord and springs
  – Went out to Home Depot and Lowes to look at bungee products
    » Bought bungee cords to test if they could hold the load
    » Bungee cords tested for stretch and strength
  – Researched springs
    » Found that strong enough springs would not stretch enough for our application
    » Thought of using multiple weaker springs, but decided that this could be problematic
  – Seat reupholstering is completed
Progress Completed

• Decided to use bungee cords
  – Ordered 20 feet of loose bungee cords
• Got quote from AYN contractors for the crane foundation
  – $922 for the foundation
  – Will excavate for $159
  – Would cost a total of $1081
• Compare with quote of $1000 from L&M concrete for just the foundation with out excavation
Progress Completed

• Dr. Peterson contacted
  – Will be going on Friday 3/6/09 to discuss testing the AJD with the crane in his lab
  – Hopefully we can begin testing after break
  – Will test different riggings to see which is most effective
  – Make sure that our device has no flaws and is structurally stable

• Updated Crane Quote Received
  – Shipping will be $484
  – Total cost of crane with shipping will be $1443
Work To Be Done

• Testing the AJD on a crane
  – Decide on a most effective rigging
  – Check for structural stability

• Decide on a contractor for the foundation
  – Set dates for work

• Order the crane
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
Hours Worked

- Caitlin – 11 hours
- Blaine – 9 hours
- Kelly – 10 hours