Assistive Jumping Device and Travel Computer Mount

Progress Report:
Week 9 (3/24/09-3/30/09)

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 forms signed and project given to the Stenglein’s
• Need to write NSF report
Sean in family vehicle with Computer Mount Installed

Computer Mount with Vmax Installed
Assistive Jumping Device

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

• Support for the vertical rail built
  • Used 1.5” square aluminum rod
  • Bolted along the length of the vertical rail
• Meeting with the Stenglein’s
  • Signed of on crane delivery and foundation work
  • They are contacting AYN contractors to set work dates for the foundation
  • Need to pay AYN first installment for work to start
• Crane Ordered
  • Should have in a few weeks
Progress Completed

- Continued Testing in Dr. Peterson’s Lab
  - Wanted to test the support for the vertical rail
  - Installed the entire device and tested
  - We noticed there was still bending in the rail at the top so support must be modified to go to the top of the rail
  - Tested with Kelly harnessed in the device
    - She was able to bounce up and down
  - Used carabineers to attach bungees to the trolley
    - Will make assembly/disassembly easier
    - Used two carabineers with openings facing opposite directions as a fail safe.
Kelly harnessed into the assistive jumping device

Assistive jumping device assembled on gantry crane
In Dr. Peterson’s lab
Work To Be Done

• Continue Testing in Dr. Peterson’s lab after modifying vertical rail and support bar
• Find out work dates for the foundation and get first installment paid to AYN contractors so work can begin
• Install the crane at the Stenglein’s home
• Install the AJD onto the crane
• Write user manual and NSF report
Hours Worked

- Caitlin – 16 hours
- Blaine – 11 hours
- Kelly – 14 hours