The week began on Monday with a meeting with the clients. The team went to their home to discuss the final designs with the family. The family approved the final design for the assistive jumping device of the trampoline. From there, we planned a time schedule with the family to coordinate the delivery of the crane, the cement block installation, and the installation of the crane. While we could not decide on exact times since we have not found a company to work with yet, we have a general timeframe of when things should be done. The family has to decide on a place they want the trampoline in their yard in order to locate a place for the cement patio. The next day, the family was leaving for St. Louis to see Sean’s neurologist. They took plans of our design to talk to the doctor about to verify their therapeutic needs were met with the assistive jumping device.

While at the family’s house, the team brought the almost completed computer mount to test for size and location in the family’s car. The mounting plate attachment was not complete at the time (the sides needed to be rounded, the rubber needed to be attached, and the frame needed to be welded to the plates), but frame of the L bars and the quick release were assembled. When we held the mount in the proper location of the car we realized the bars were too large. We also noticed there was a structure of the seat on the top of the seat that we thought was connected to the headrest was actually connected to the seat. This did not fit with our design and the bars must be cut shorter. A smaller mount would also fit better in the car.
On Tuesday, I worked on fixing the website design to add to the weekly reports and presentations. I added a new index to link the weekly additions to a linked site rather than to keep adding multiple links each week to the original index. I also tried to convert Blaine’s and my report from their newer word versions to be able to open in the word program of the lab. This did not work and they would have to be attached after they were resaved from our own computers.

Thursday, I went to the lab to cut the stainless steel L bars and the horizontal bar of the computer mount. The L bars were shortened six inches from their long side and the horizontal bar was shortened two and a half inches. The ends were cut and beveled using a belt sander. They were also then tested to ensure a fit into the corners.

I was also able to fix the problem with the website. The weekly reports were uploaded to the website and were finally able to be viewed from accessing the site online.

On Friday during class, Caitlin and I worked on the seat (the bottom had been removed) while Blain went to the shop to work on the mounting plates. The seat had been removed from the chair leaving the inner foam and support bar exposed. There was also blue vinyl flapped and ragged on the edges.
The original plan was to use the removed vinyl from the seat bottom to reupholster the exposed seating. Using the extra, already removed foam from the seat, we were able to create rounded pieces of foam to attach to create a rounded corner to the ends. The foam was attached to the seat using superglue. We also then attempted to use the superglue to attach the vinyl to the exposed foam. After waiting the appropriate time needed for the glue to set to a tacky consistency as instructed, the vinyl was attached to the foam while applying pressure. This did not work. The material did not stick to the corner of the seat (it would not conform to the rounded edge). From there we brainstormed ideas of what to do. We went to the hardware store to look for ideas and ultimately purchased a roll of black duct tape.

We used the duct tape to secure the opened portion of the seat. This created a smooth finish to the bottom of the seat and enclosed the opened area. While this does not create the best appearance, it completed the task of closing the bottom of the seat. We potentially may purchase a fabric or material to cover the duct tape part of the seat.
Saturday morning, Caitlin and I met with the Stenglien family. On Friday, we received an urgent message from the family. They were returning home from St. Louis late Friday night and needed to meet with us to discuss concerns from the neurologist. At the meeting, we were informed that the doctor insisted there be no support behind Sean’s head while jumping. This does not work with the current design. From there, Sean’s local physical therapist was contacted and a meeting was set up for Monday morning to discuss the design, possible alternations, and concerns the family and the team have with the assistive jumping device. Hopefully, the meeting will help us to understand how to make the device more compatible with the advice of the doctor.

Hours Worked Week 2: 10