

Meeting Minutes Week 02/20/17-02/27/17

Meeting: February 13, 2016 3:30-5:30 pm in Capstone lab

Team Meeting Discussion/Activity:

- ❖ Purchased materials to function as vertical supports and wheel placement holders
- ❖ Group held in the garage wheels by inserting rubber tube stoppers in the hollow tubing of the main support bars seen below in Figure 1. Holes were drilled through these stoppers so the rod of the garage door roller could easily slide through the material and be held in place.



Figure 1: Wheel assembly

The wheels supported with this method works really well to show the group's idea for allowing the support bar to move but alternative methods are being explored. This is because the wheels are allowed to move around too much and is not fixed completely in place when sliding along the track. This can be seen with the slight tilt of the wheel as seen above.

- ❖ The group also assembled the harness and spreader bar assembly by using a swivel carabiner connection. This enables the user the ability to rotate themselves when using the gravity-harness. The assembly can be seen in Figure 2 below.



Figure 2: Assembly with Swivel Carabiner

- ❖ Client expressed modifications/ideas to add to the structure.
 - Dr. Winfree would like to add multiple wheels on a single side of the track to evenly support the weight of the user. This is because when the user has all their weight being supported by a single side of the track, when they try and move it will cause extra torque and forces to bend the opposite end of the EZ-up frame.
 - Dr. Winfree also expressed interest in having the team use a malleable track setup that allows the group to use pliers to form a custom track shape. This material can be found at local Flagstaff stores and will be able support the type of wheels the group has installed on the system more securely.

Weekly Tasks 02/06/17-02/13/2017

Team Member	Tasks Assigned
Khaled	<ul style="list-style-type: none"> • Update information for the team's website • Continue to make report edits
Hasan	<ul style="list-style-type: none"> • Go to Home Depot to get materials

	<ul style="list-style-type: none"> • Continue to monitor budget
Noah	<ul style="list-style-type: none"> • Email Dr. Oman to set hardware review time. • Communicate with client to determine meeting times for the rest of the semester
Eileen	<ul style="list-style-type: none"> • Continue to construct gravity harness instruction manual • Update team's Wiki-link
A.J.	<ul style="list-style-type: none"> • Fill out Capstone registration packet for team. • Submit meeting minutes by 2/26/2017

Next Steps:

- ❖ Meet Monday at 4:30 at the Informatics Lab
- ❖ Hardware review Wednesday 12:20pm (2/22/2017)