



Slide clamp grips to fasten the post to the handle bars of the wheelchair.

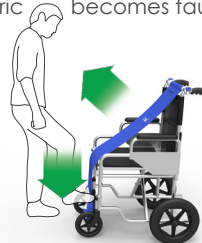


Ends of the posts can extend to fit multiple size wheelchairs.



Lower post has a trigger release for attaching to vertical bars in front of the wheelchair seat.

Pressing the pedal down to the floor lifts the patient up and out of seat as the fabric becomes taut.



ideation refinement

By taking my final direction into Solidworks, I was able to manipulate the PedoLift in three dimensions. Creating a functional part file allowed me to see how my design would function as well as visualize how the user would interact with the product. The next step was to have the individual part files cut

out of foam on the CNC machine and piece them together. After all the parts were sanded smooth and painted, I used a sewing machine to attach the fabric to the foam parts to complete the presentation model.