

1a. The problem I am trying to solve is creating a platform to rest my TV on it. The constraints would be having to hold my TV securely and level, and by choice having an area on the platform or constructing it with a place for cats to lay so they do not sit in front of the TV. I'm limited in the space available for the platform, as the space available is only 46"x29"x8'. There's space from the floor to the ceiling, which is 8 feet tall, but limited in how long and wide the platform can be. I only have two days to make it, and it must be tall enough so I don't have to bend my neck too much to see the screen comfortably. I don't plan to spend more on supplies to build the table than I would be paying for a prebuilt one, so my monetary constraint wouldn't be more than \$35.

1b. I thought of the specific needs of my cats, and my neck. I want to make an ergonomic design that will allow me to watch TV without neck pain, and the distraction of my cats in front of the TV. Economically I want to make an affordable design that provides comfortable care to my cats, so they don't lay in front of the TV while I'm watching. This will satisfy and make my cats lives more comfortably and my life more comfortable, as innovation and new technology is supposed to.

2. My solution is to build a table that is 45"x27"x45" out of affordable plywood, and then paint it over. I would also include hooks on the sides to hang cat toys from, because there would be a shelf about halfway at around 23" up the legs of the table with felt and blankets for any pets to lay.

3a. Created values would be any benefits, whether intended or not. For example, a comfortable bed for the cats would be a create value. Or, using the shelf for storage purposes along with a place for the cats to lay. Another created value would be a decorative piece of furniture for my home, if completed fully. Fully meaning sanded down and painted with perhaps designs as well. Another value would be a healthy neck, as my neck would not have to bend at an awkward angle to watch entertainment.

3b. Economically if produced at a mass production level, the table could be another option for those furniture shopping who have pets or plan to have pets. Environmentally, it would have negative impact due to the wood used for the table, but in the future that could be innovated to use more environmentally friendly resources. Socially it is a more pet friendly option of a TV stand for households with pets.