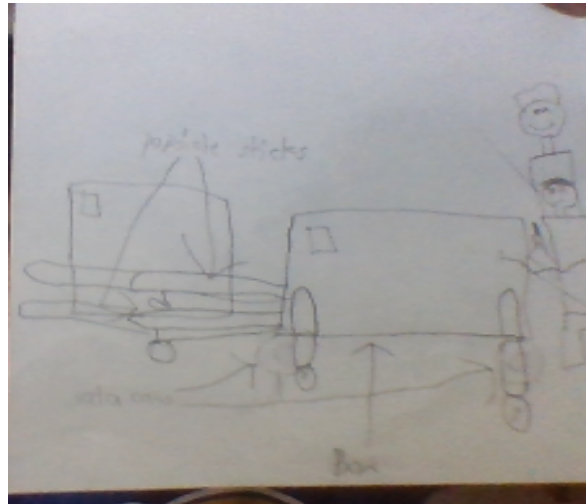


Recycle Bot

Team 10142Z

What the recycle bot would do if it was real is that it would carry items for you wherever you go. It could follow you with its sensor.



The way the robot follows you is that you get a card and have the robot scan it. The card has a specific number and the robot will follow the card holder. For it to follow you you need to have the card on you at all times.

What the robot will have is a distance sensor and if you put the card 5 inches away from the sensor it will start to follow the card.

If you want it to stop following you scan the card again from 5 inches away.

The robot will be 3 feet in length and 2 feet in width. It will be able to fit in most homes and

will be able to move very freely in a home. This robot can work in a house with a lot of stairs because it's wheels can allow the robot to go upstairs and downstairs. The robot's wheels will have little sticks that will make the front wheels go up and the back wheels go down. The robot will be made out of metal and will have regular wheels that are 3 inches by 3 inches. The platform will be made out of metal and it will be held up by metal sticks.

The robot's inside will be full of wire and it will also have a battery that you need to put new batteries in every 2 months/charge the battery.

The robot's batteries will look a little like vex batteries but they are not.

The batteries will have a blue square on it which is the percentage of the robot.



It will also have a number and a sign that looks like this: %. That is the number of the percentage. It will also have a battery charger.

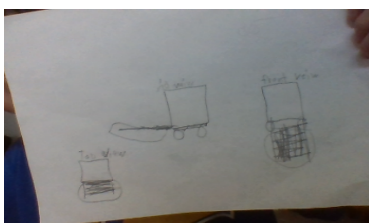
The battery charger will work by plugging it in and putting the battery inside of it. The battery charger will charge the batteries when they are 20 or lower.

This robot will not be too hard to use. It will be an everyday item that people have in their houses. The item could be used inside and can also be used outside of your house in an airport or at the grocery store.

An example of what my robot would be used for is that maybe if you needed to bring a box somewhere but it would be too heavy for you you could have this robot follow you to where you need to bring it and it would put it where you point to. It will follow the card so it is where you point the card not your finger.

My first design had used popsicle sticks with a box but that was not the best design so then I decided to use pencils instead because It was something I had.

The pencils will be the lift and the soda cans will be the wheels. The box will



be the body that can connect the paper plate and pencils to the wheels. I will connect the box to the pencils and the wheels of the robot by using glue. The reason I used glue instead of tape is because it is stickier and things won't come off as easy.

The wheels are static which means that they can't move.

I changed my wheels to static wheels because it would stick better to the box and because it fits better on the box.

My final design uses 4 cans as the feet, a box as the body, 4 pencils, and a plate. The box connects the feet and pencils together and the pencils hold up the plate. The plate is the lift

This is the robot from the top, bottom, and front.



This is the final design of the recycle bot I made.

