The Trash Picker-Upper Bot Team 405B

Megan Lasley, Kaitlyn Lasley, Daniel Gonzalez Matehuala

We have noticed that there has been so much trash around our community, and that is a huge problem. That is when we came up with the Trash Picker-Upper! This robot does not use any VEX parts, but it uses a straw and a balloon to be powered. What you do with it is you blow up the balloon, and as you let it go, it will pick up any trash that is in its way.

To make this, we had to plan. We talked about many different ideas of what we could do, but at the end of the discussion, we were set on doing the Trash Picker-upper. It was Convenient, and easy to use. With this idea set in mind, we had to come up with how this was going to look.

For the design, we were thinking of getting some kind of box to use it as the base for this project. Next, we had to think about what we were going to use as wheels. We thought of using soda cans and cutting them since they would be the best to use. Next, for the thing that would scoop the trash up. At first, we were just thinking of taking a cardboard box and bending it some, but in the end, we found a better idea. Lastly, we needed the straw and balloon to make it move. I had the straw and balloon, so we were all set.

Over time as my parents would be done with anything, I would save it if it looked like we would need it for this project. We did not need much for this project. In the end, we only ended up using two Monster cans, a Cheez-its box, and a hot chocolate box, and the balloon and straw of course. After I gathered all these materials. It was time to get to work.

To put everything together, I used a glue gun, and scissors to cut the cardboard and cans. I cut four holes in the Cheez-its box and took cardboard from the hot chocolate box so that I would be able to attach wheels to it. Next, I cut out the cans, making sure they would be big enough for this project. I took the can cutouts and attached them to the hot chocolate cardboard. On the hot chocolate box, I found that there was a flap that would be perfect to use on this project. This would act as the thing that would pick up the trash. Once I got all of this glued together, I just had to attach the straw and balloon. Using some leftover cardboard, I bent it so it could stand up on the top. I glued it down, and then glued the balloon and straw on top. I was finally finished, and I tested it out using the scraps that were on the floor after I was done, and it worked!

This process was a lot of fun, but there are some things that I would do differently next time. Next time, I would like to have better time management. I found myself at some points scrambling to hurry and get things done, when I should have thought about what my plan was before. Other than that though, I would say that this recycle bot came out pretty good. I am happy with how it turned out.





