

## Team 2323Z sustainable Robotics challenge

The main idea of the robot was to collect the trash cans in an outdoor area like a park or county fair. There is a ramp on the front so when the trash can slides up it and gets to the top there is hinges so it will level out on the weight of the trash can. On the front of the robot there are linear slides that would extend and the wheels on the end will spin and bring the trash on the robot. The GPS unit on the back would help it locate itself and the trash cans.

This would be more environmentally friendly because right now the city park has people going around in pickup trucks witch burns Gasoline and someone goes to get some of them. This is not affiant; the robot would use solar cells on a recharge station to recharge the battery for future use. There are no sides to reduce the metal used.

In the beginning we had a hard time coming up with a general idea of what our robot will do. We turned to the Autodesk sustainability workshop to brainstorm a find out, what exactly does vex want from us? After lots of thought we came up with these ideas:

- Street sweeper
- Trash can collector
- Traffic cam to make the flow of traffic better
- Censer to detect when a car pulls up to open the garage door to reduce get rid of the unit in the car

Because we are not allowed to put down any ideas those are the highlights. Street sweeper was already taken the traffic cam and garage door opener we too hard to make with vex parts so we did the trash can collector. But what we have is a basic model of we were wanting to go full scale and wanted it to go up the streets we would need to change our game plan.