Making it Real CAD Online Challenge

TEAM 56445D

Why the part was created and what functionality are you improving? How will the part be used and how does it fit into a complete robot design?

We are working on the online make it real C.A.D challenge. We made this object to transport small objects. First of all the scoop can be used on multiple robots. It can pick up small objects such as a marble. It can also rotate at any angle. It can transport objects from one area to another. The scoop can fit into any robot with the right accommodations.

Explanation of Tinkercad, Ultimaker Cura, and NWA3D:

We built this item with inspiration from our teammates, Robby & Brody. The design that we chose is by our builder, Tommy. He created the scoop in Tinkercad. First, Tommy exported the file from Tinkercad and then imported the file into the software called Ultimaker Cura. We printed it on an NWA3D printer. The 3D printer created this scoop in 3 hours.

Our conclusion:

We learned that some things take more time than others. We will use the 3D printer to show our project more clearly. This software can help us in competition by helping us solve a problem even if we don’t have the part for it. Tinkercad could help us in our careers by giving us a better understanding in our career paths.

This document was written by Robby R. with help from Tommy T. and Brody A.