

Make it Real CAD Challenge

Team 56445B

Final Report

MADE with TINKERCAD, Ultimaker Cura, and Printed On a NWA3D Printer

We made this piece because we knew that we would struggle in the new 2020-2021 challenge Vex IQ Rise Above challenge because a completed stack is 30 points we knew we needed to be able to get that and that is how we came up with the idea. We're solving the issue of not being able to stack three risers.

Well it has two pieces in bottom that stick out so that in can cling to the riser that way and we added another piece that sticks out on the top to hit the next step so the riser is secured when you pick it up to stack it. It would connect to a pair of "arms" or pieces that stick out and when its secured to that piece it is strong enough to pick up the riser and stack it so we can get 30 points.

On Tinkercad we designed how we wanted it to look made sure we followed the requirements and we used the resources available and we created prongs. We named it that because of the pieces sticking out.

We learned How to use the software and became very efficient with it. We will probably use 3D software in the future because of our STEM class tasks. It can help us with robotics to come up a better piece to allow us a better chance at winning a competition. Learning how to use 3D software could help us because the world is becoming more and more dependent on technology that if we know how to use 3D printers we could "go with the flow" if you know what I mean.

This is prongs, Our 3D CAD object For the "Make It Real" CAD Challenge.

