

Wednesday Challenge Form

Group Members: Edgar, Krish, Derek, and Nicholas

Problem Statement: Come up with an idea this year for a thing to make 400 times. This thing will be representing our school and has to have the number 589 on it somewhere. The robotics team will serve as judges to decide which is the best.

Approach: First, we brainstormed many different ideas. We came up with a gear idea using metal, the rotor idea from the video, and finally came to the idea of the spinning gear. We would make it by buying a skateboard bearing and putting in the middle, then build the other parts to look like a gear. We would have had to use a 3-D printer to build some of the parts. The skateboard bearing would have cost about 18 cents each, and the rest of the parts were roughly 20 cents.

Solution: Connor's group idea of a rotor ended up being chosen by the judges. Our group got chosen for the best overall presentation, but our idea was impractical to replicate 400 times.

Lessons Learned: If I were to do this again, I would have chosen an idea that was more practical to build 400 times. Perhaps we could've figured out some way to not use the 3-D printer.