

Challenge 13 Customized Plate

Over the years, robotics have become more and more popular and with teams being more advanced, we would need more parts and pieces for the robot builds so they can have more options on the robot designs. With the new robot options, there will be a much bigger challenge for teams and they would have to work extra harder so they can be the victorious team.

A design that I created is a customized plate which is just two plates combined together to make sort of a t-shaped plate. I really think that this tool could be very useful for us because of how robots are being built. Let's take last year's challenge for example, a lot of the designs had a very similar arm structure from which it kind of looked like a t-shaped arm. My robotics team had that same arm and our problem was how we added screws on each plate to make it look like a t-shape arm, but it was difficult on how we could get the blocks in the arm without the screws blocking them from going inside. With this new piece, that wouldn't be a problem anymore since teams wouldn't have to add too many screws on and block parts from coming in. The design is really simple so it wouldn't be that difficult to construct at all since all we would have to do is combine two separate pieces into one.

Although it may have some disadvantages, I really do think customized parts like these would really help out students in the future with similar problems my team had encountered last year. Sure they seem like they will be that effective, but simple parts like these will help us in more ways than you can imagine.