

MS System Control Region 8 PA TSA

2018

As always, consult your TSA rules for details. Remember to complete the necessary documentation. Be prepared to present to the judges and answer their questions.

Historically most of our Region 8 systems have been Lego based. The rules are not vendor specific. In the spirit of the competition, all systems should be student designed and constructed. Commercially available kits or components made to specifically solve the challenge are not to be used.

*****Include a bill of materials with retail cost for any “non Lego” components used in your solution.*****

MIDDLE LEVEL

You just finished filling your lunch tray and realize you haven't picked up any utensils! Both hands are on the tray so it won't be easy to grab something now. Then you see the utensils, all just lying there. Obviously people have been digging through them all day..... Did they wash their hands? Did they sneeze nearby? Uggggggg. Your challenge, design a system that holds at least 12 plastic forks OR spoons (you can choose, forks or spoons, NO knives) (There aren't any rules against being an overachiever and making it have both forks and spoons). The device should store them in a hygienic manner. The device should dispense the utensil desired onto your tray **WITHOUT** any physical contact. When empty, the device should somehow signal to staff that it needs to be refilled.

GOOD LUCK!