

Team: P20068 Robotic Drum Assist

Engineer: Yasha Pavlovskiy

What were the outcomes of the prior phase?

1. What did I plan to do?
 - a. Motor configuration and control
 - b. Choose drum stick motor actuator
 - c. Figure out form of motor driver
2. What did I actually do?
 - a. Car door lock actuator has been chosen as an almost definite motor
 - b. Solid state relays chosen as primary motor power delivery
3. What did I learn? How were plan and reality different?
 - a. Design for motor mounting and actuation of the drum stick
 - b. Continue to figure out the best case motor driver

Team level goal for next phase

The team will continue the design work started during this phase, filling out the BOM further and creating a full design that will allow us to quickly begin prototyping and implementation when MSD2 starts. We will create simulations and add more detail to schematics, drawings, and diagrams, with high-quality renders of the final design. Small-scale prototyping will be done as members are able to.

What do I plan on doing to ensure that my team has a successful review at the end of the next phase?

1. Endurance test motor actuator. Mehmet
2. Prototype motor mount. Hannah
3. Figure out circuit for power delivery. Mehmet

What is standing in my way of meeting my next phase goals?

1. Meeting time
2. Keeping everyone on the same page
3. Corona