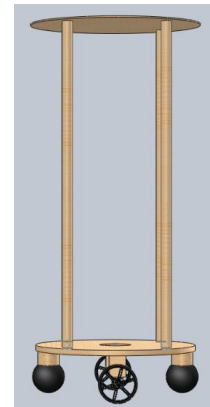
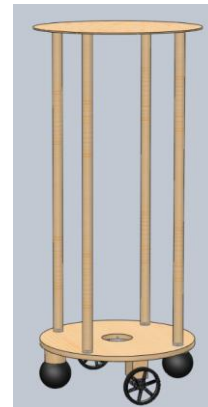
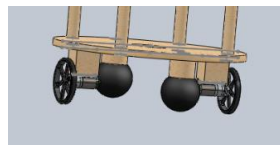


Week 2 Status Update

Team D1 – Isabel Murdock

Work Accomplished:

- Reevaluated needed motors, gearboxes and motor controller with lighter robot weight
 - o Previous motors were very expensive and required excessive amount of power. Also required separate gearboxes which added to the expense.
- Determined that pololu motors should be strong enough to drive the robot
 - o Motors also came with gearboxes and encoders integrated with the motors and further cut costs
 - o Simple design (along with readymade brackets for the motors) and plenty of additional resources also made these motors appealing
 - o As a result, can use a simple motor shield in combination with an Arduino to drive/control the motors
- Placed order for motors, motor shield, brackets, and wheels
- Placed order for tennis balls and Arduino
- Designed basic CAD model for the structure of the robot:
 - o Cylindrical structure
 - o Hardware will rest on the bottom circle
 - o 4 points of contact via 2 wheels and 2 tennis balls
 - o Roughly 3 ft tall



Schedule:

- On track with schedule

Upcoming Deliverables:

- Build the base of the robot – pending all of the hardware arriving