## Assignment 5.4.1: Prosthetic Arm Cost Sheet and Sketch

After discussing possible designs with your team:

- 1. Draw and describe in your notebook the design your team intends to build
- 2. Fill out the Prosthetic Arm Materials Accounting Sheet (Parts List.xlsx) and show the sheet to your instructor to obtain your materials.

When you have completed these steps, you may begin to build your prosthetic arm.

Remember, the design must satisfy the following design requirements:

- Materials are low cost (less than \$10 total) and available at a hardware
  or fabric store. See "parts list.xlsx" for material costs for things that we
  have in the lab. If you supply materials from home, you must account
  for their cost.
- Must be able to:
  - 1. Open a water bottle, take a drink from the bottle, and put the bottle down. (You may use the other hand to assist in opening, but not drinking from the bottle.)
  - 2. Throw a tennis ball to hit a 2 ft. target from a distance of 10 feet away.
- Must be body powered (no electronics, motors, etc.). You may use the
  other hand to activate a feature, but not while actually throwing the ball,
  opening the bottle or drinking.