Mechanism Workshop Outline (7/22, 7/24)

- Introduction to the Task Machine Fall Competition
  - Overview of requirements and goals of the mechanism portion
  - Mechanism Example videos: both online and lab-built
- Basic Arduino refresher/ overview
  - Hardware
    - Easy schematic example
      - Basic Servo + switch live example (schematic only)
    - Lab-built example hardware schematic
      - Thought process overview of building mechanism
        - Brainstorming
        - Parts testing
        - Putting it all together
    - Online Resources
      - Specs sheet
        - Arduino board, servos, lights, etc.
      - Schematics
        - Arduino project hub
  - Software
    - Easy coding example
      - Basic Servo + Switch live example
    - Lab-built example software coding
    - Online Resources
      - Github, arduino forum, stack overflow
  - Good Testing Practices
    - Safety precautions!
  - Demonstrating Basic Electronic Skills
    - Using a Breadboard
    - Using an arduino
    - Soldering
    - etc
- Questions/ Comments
Container Workshop Outline (7/29, 7/31)

- Introduction to the Task Machine Fall Competition
  - Overview of requirements and goals of the container portion
  - Resources for modeling container
    - Solidworks, autocad
  - Container Example built in lab
    - Thought process overview of building container to house mechanism
    - Machinery and hand tools live example to build container
  - Demonstrating Basic Woodworking skills
    - Using a Band Saw
    - Using the Miter Saw
    - Using Drill Bits
    - etc

- Questions/comments