Part list

1. Physical structure
   1. Base assembly
      1. Mounting/Top triangle
         1. Top triangle
         2. Main support
      2. Base Triangle
      3. 6 Plexiglass stands
      4. Plexiglass paper keepers
         1. Top keepers
         2. Side keepers
         3. Bottom keepers
   2. Servo tripod assembly
      1. 3 Servo motors
      2. Top support
      3. Bottom support
      4. 3 Servo brackets
      5. 3 Levers
      6. 3 Rods(Not finalized)
      7. Base platform (or effector platform)
2. Electrical Connections and Circuits
   1. Arduino
   2. 3 servo motors
   3. External power source

Manufacturing plan:

1. Laser cut the following items:
   1. Base Triangle
   2. Top triangle
   3. Main support
   4. Top support
   5. Bottom support
   6. The 3 servo brackets
   7. 6 Plexiglass stands
   8. Plexiglass paper keepers
2. 3D print the following items:
   1. 3 levers
   2. 6 rods
   3. Base platform
3. Make the servo tripod assembly
   1. Put the 3 servo brackets in the holes in the bottom support piece
      1. The servo bracket’s holes should be more outer rather than being inner facing
   2. Put the top support piece on top of the 3 servo brackets
      1. The two support pieces should be mirrored across the middle of the servo brackets
   3. Insert the servo motors into the servo brackets so the rotating part of the servo aligns with the center of the support pieces
   4. Set the servo motors to 45 degrees each through the Arduino. Then attach the lever pieces to the servo motors so the levers are 45 degrees to the bottom support piece
   5. Use adhesive to hold the laser cut pieces together at every connection point
4. Make the base structure assembly
   1. Start with the base triangle and place the paper keepers in the holes that trace a rectangle
      1. The 2 bottom paper keepers are placed in the holes along the flat bottom of the base triangle with their flat side facing each other
      2. The side paper keepers are placed right above the bottom paper keepers in the holes that are perpendicular to the flat bottom of the base triangle
      3. Place the top paper keeper on top of the side paper keepers. This should close the gap between the two side keepers
   2. Place the 6 Plexiglas stands in pairs of 2 in each of the corners in the holes
   3. Place the top triangle on top of the Plexiglas stands so they fit into the holes on the top triangle
   4. Attach the main support piece to the top triangle where the 3 spokes of the main support piece are in the middle of each the top triangle’s sides
   5. Use adhesive to hold the laser cut pieces together at every connection point
5. Attach the servo tripod assembly to the main support piece by screwing the top support piece of the servo tripod to the main support piece of the base structure assembly. The central triangles of the support pieces should line up. The bottom support piece is on the same side that the lever pieces are pointed in
6. Attach the rod pieces to the lever pieces then attach the base platform to the open ends of the rod pieces