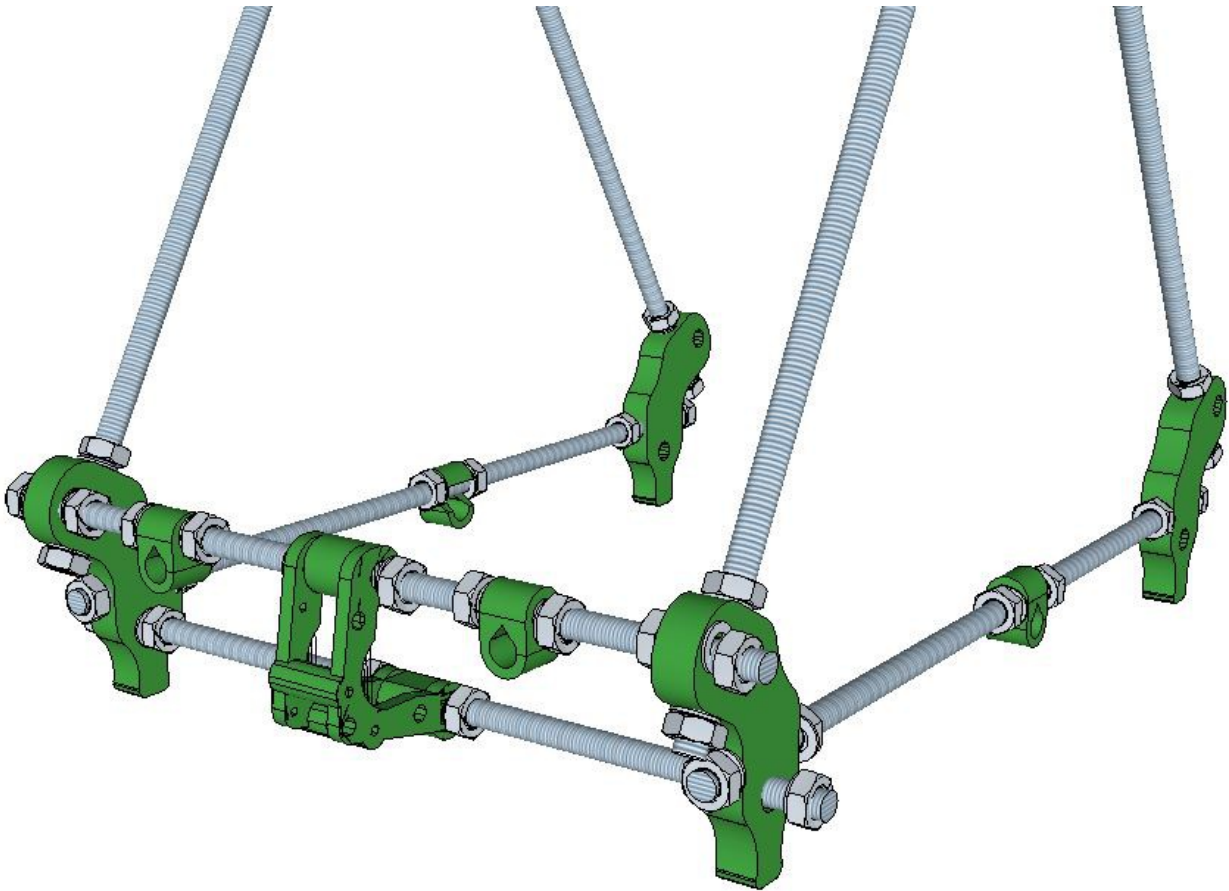# Part 2

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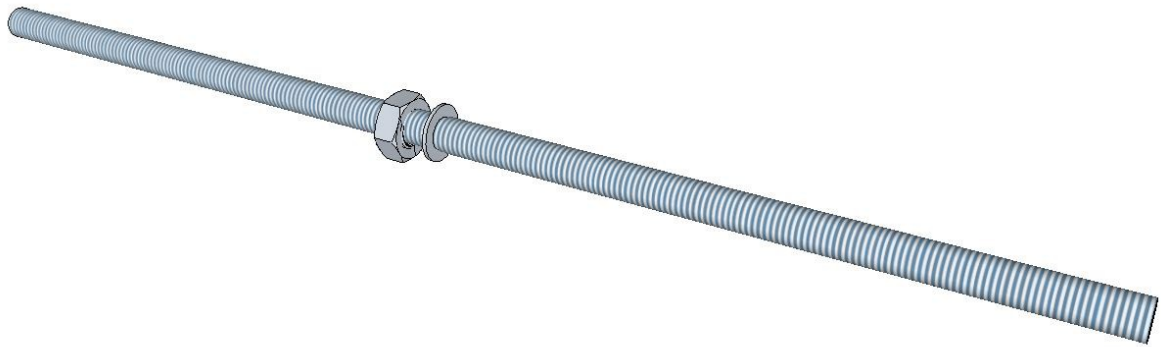
# Assembling the Front threaded rods

In this section you will construct the set of front threaded rods that interconnects the pair of apex triangle sections and carries the Y axis stepper motor.
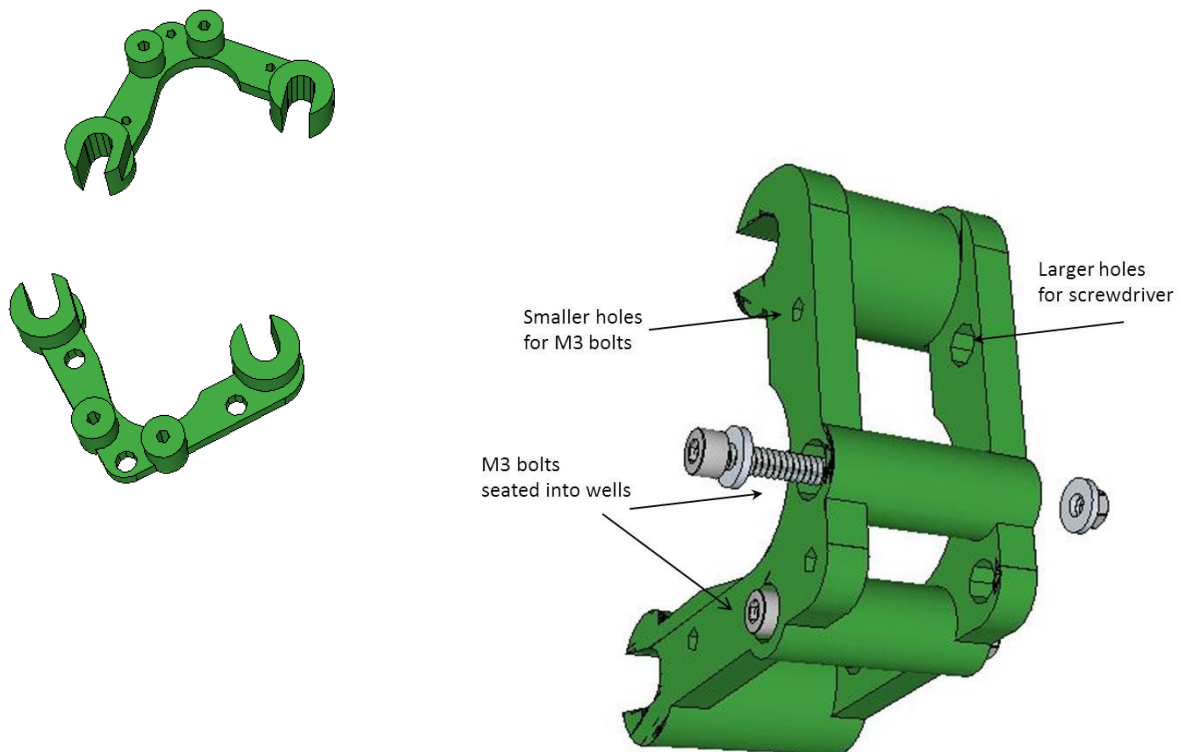
**1**

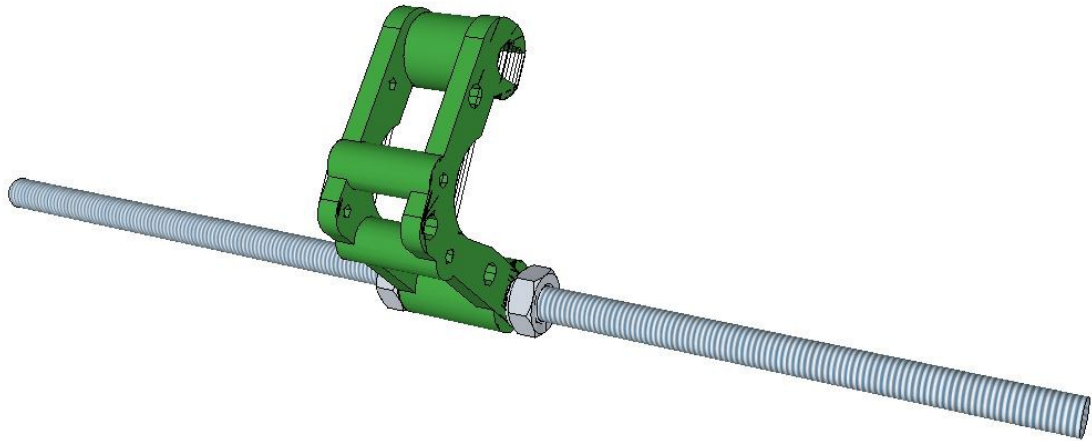Thread the bottom rod first. Thread an M8 nut onto the middle of the rod. Slide an M8 washer next to it.



**2**

Bolt the two halves of the Y motor bracket together as shown then slot the rod into the bottom slot of the two arms of the y-motor-bracket. Note that the arm with the larger screwdriver clearance holes is on the right.
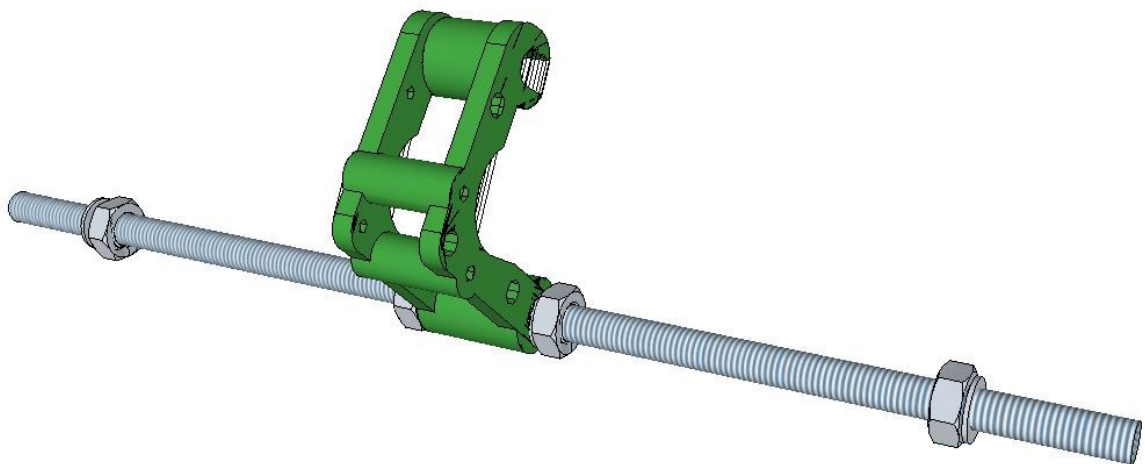


Smaller holes
for M3 bolts

Larger holes
for screwdriver

M3 bolts
seated into wells

**3**    Slide another washer onto the other side of the rod and add another M8 nut to hold it in place.
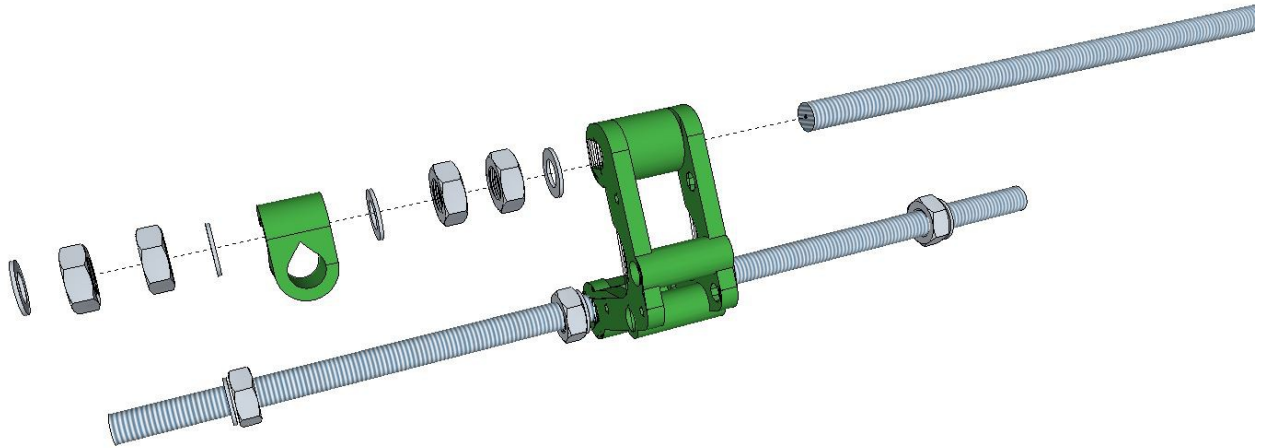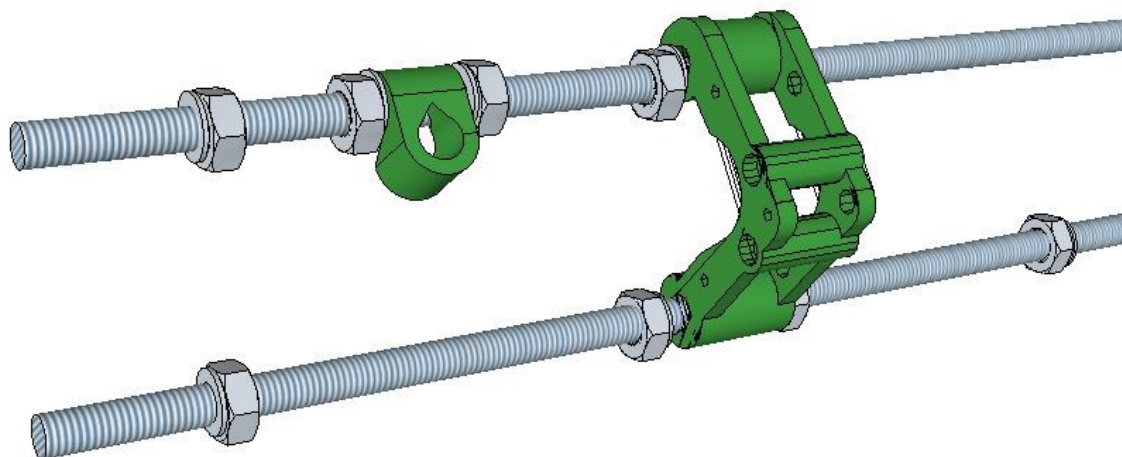
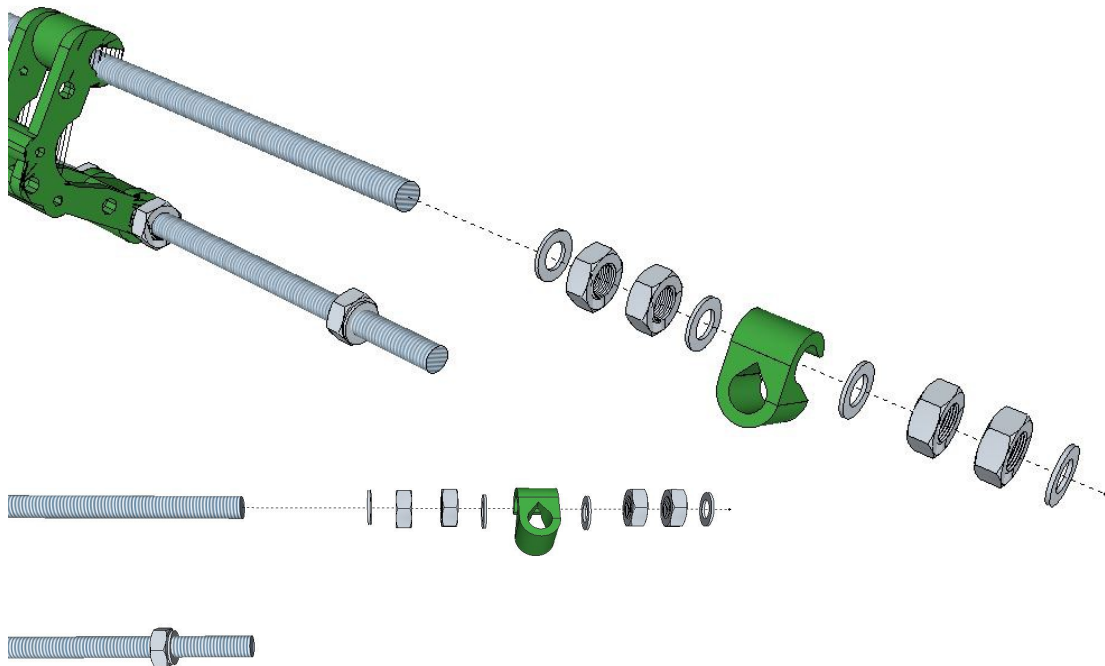**4**    Add a nut and washer to each end of the rod.

**5** Now thread the top rod. This is a complicated one, so make sure you get it all done in the right order. From left to right, the rod should have: 1 washer, 2 nuts, 1 washer, 1 bar clamp (slipped on to the rod), 1 washer, 2 nuts, 1 washer, the y-motor-bracket,1 washer, 2 nuts, 1 washer, 1 bar clamp (slipped on to the rod), 1 washer, 2 nuts, 1 washer.
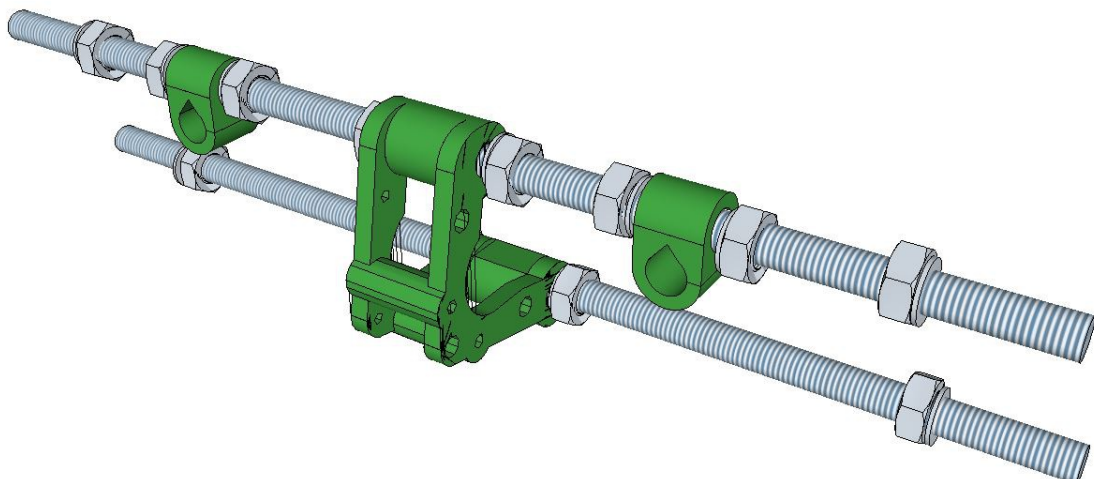
[ Lefthand Side ]

The right hand side is simply a repeat of the left. From left to right, the rod should have: 1 washer, 2 nuts, 1 washer, 1 bar clamp (slipped on to the rod), 1 washer, 2 nuts, 1 washer, the y-motor-bracket,1 washer, 2 nuts, 1 washer, 1 bar clamp (slipped on to the rod), 1 washer, 2 nuts, 1 washer.
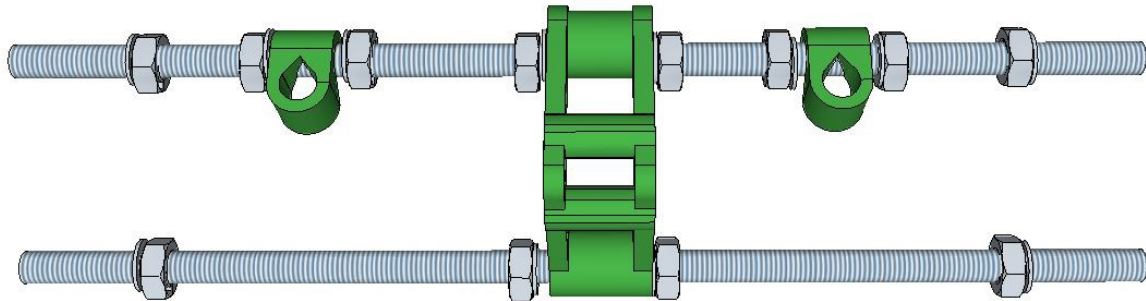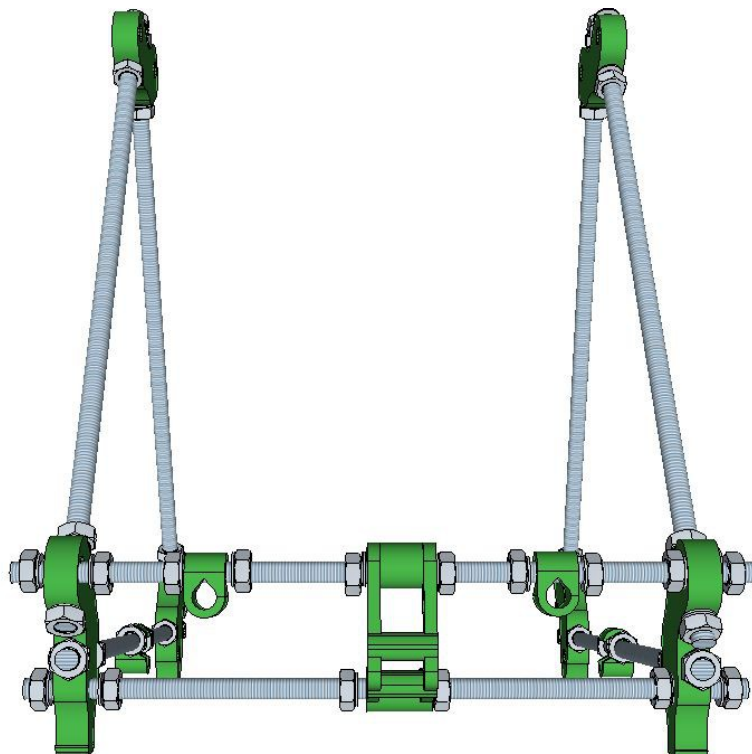
[ Righthand Side ]

**6**

When you hold it with the bar clamps at the top it should look like the picture below with the elbow of the motor bracket sticking out towards you. Verify this now.
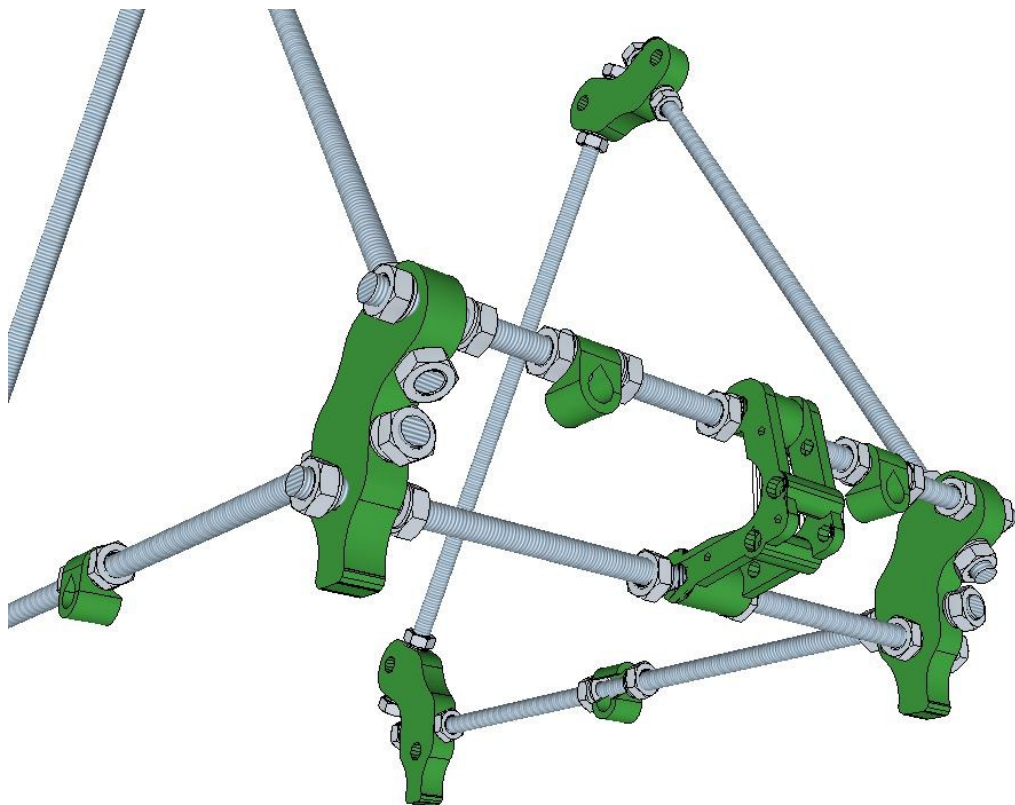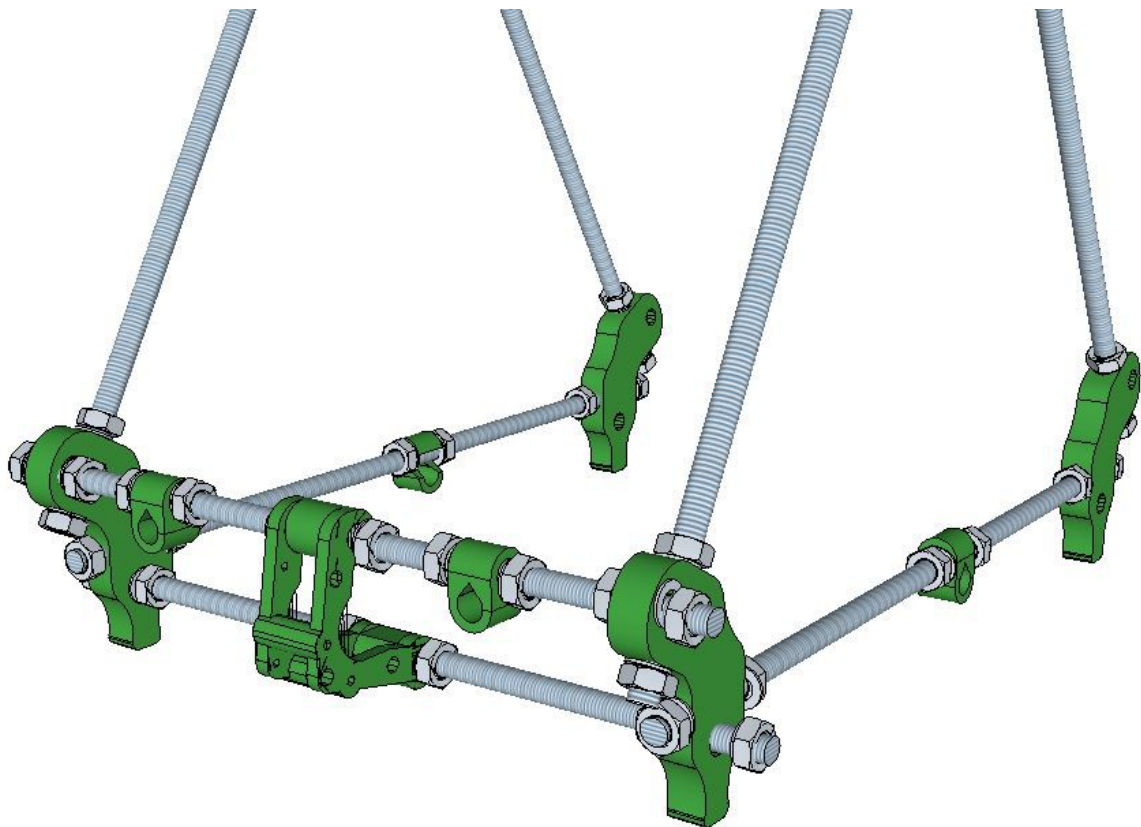
**7**

You can now attach this setup to the triangle sides. Make sure the bigger part of the motor bracket points OUT of the triangle. Thread the ends of the rods through two of the footed vertices. Put a washer and nut on the end of each threaded rod.  It should now look like this:

[ View from below ]