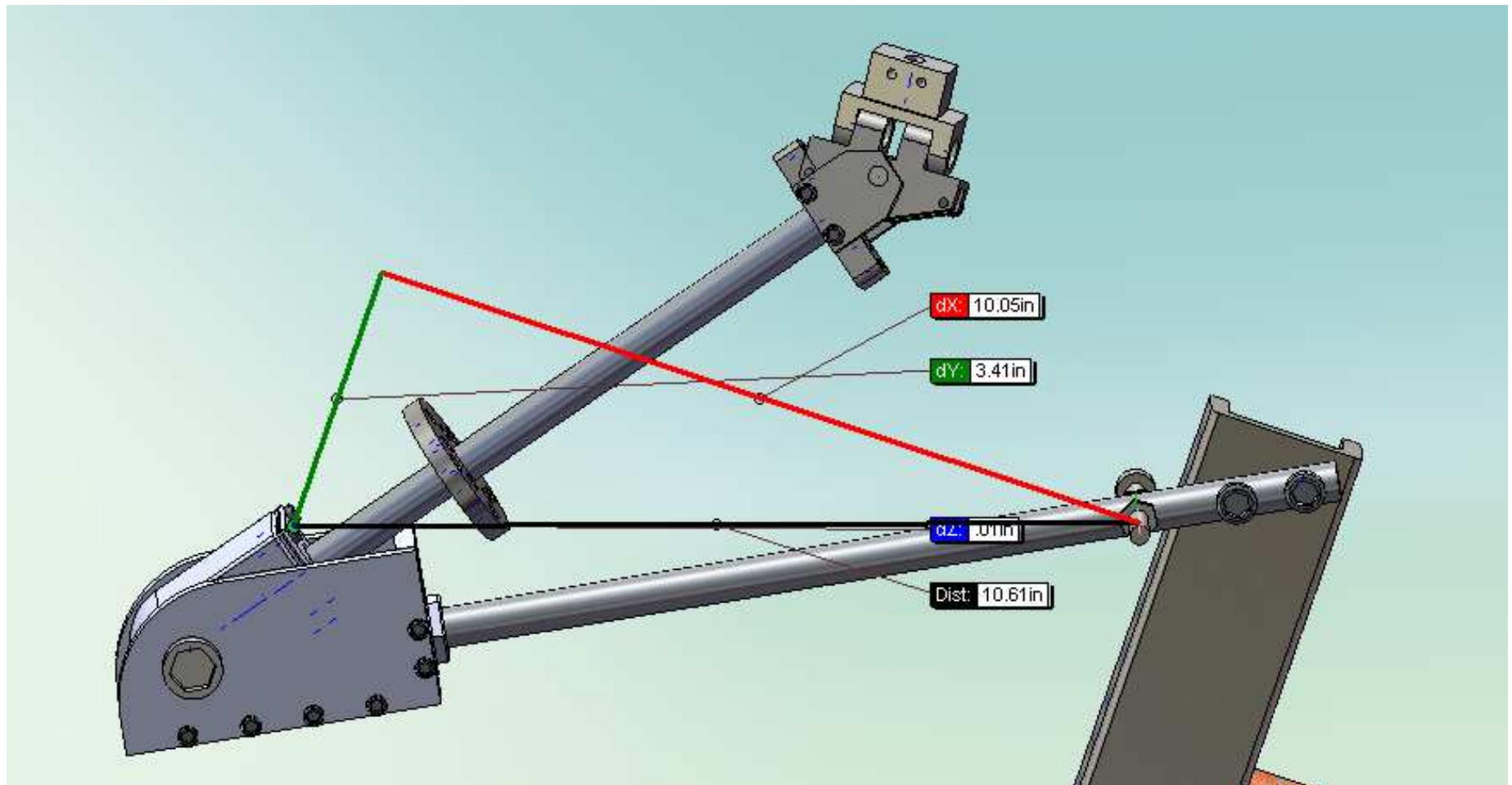


Kinematics

P09029 - Casey Dill

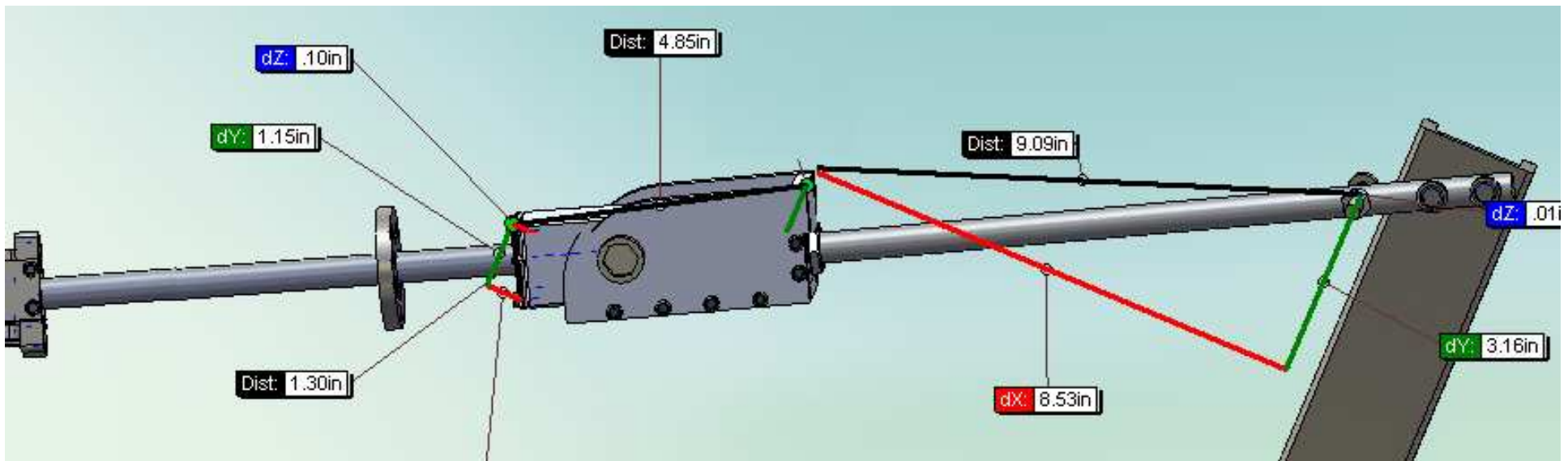
Elbow Flexion

- Minimum Distance: 10.61 inches



Elbow Flexion

- Minimum Distance: 10.61 inches
- Maximum Distance: 15.24 inches

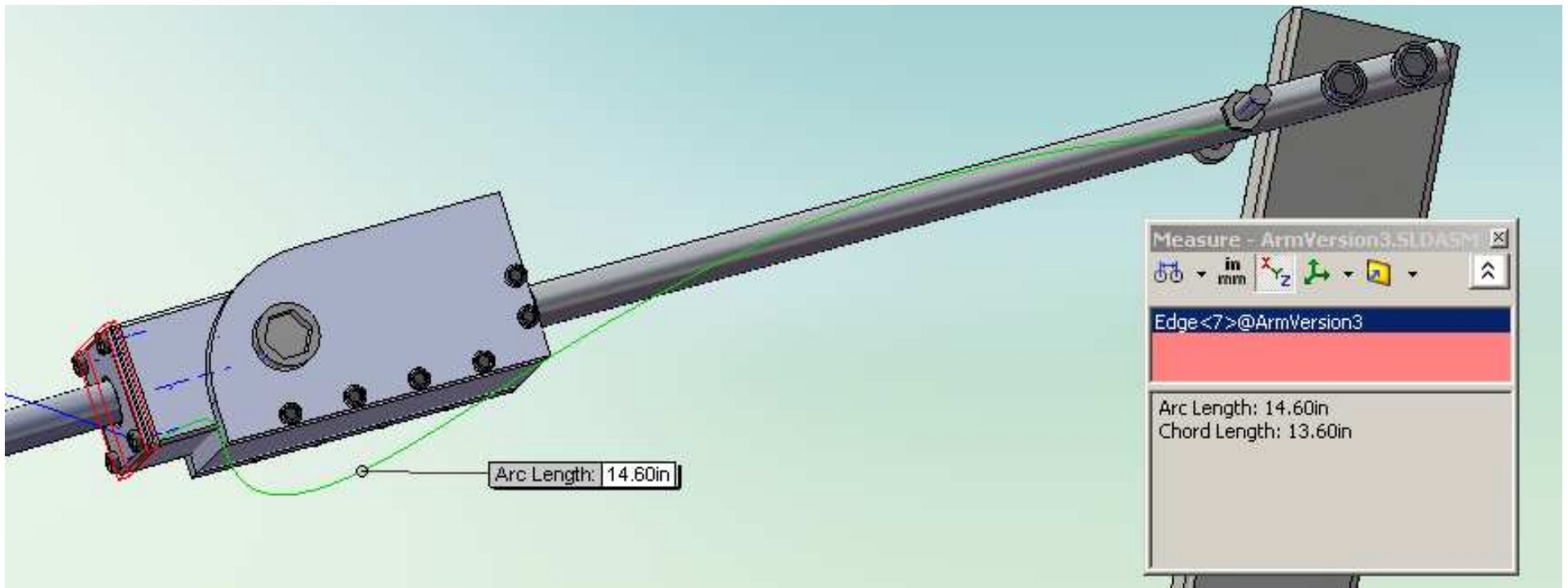


Elbow Flexors

- Minimum Distance: 10.61 inches
- Maximum Distance: 15.24 inches
- Displacement Needed: 4.63 inches
- Next Step: Find the length of air muscle needed to get 4.63 inches of displacement

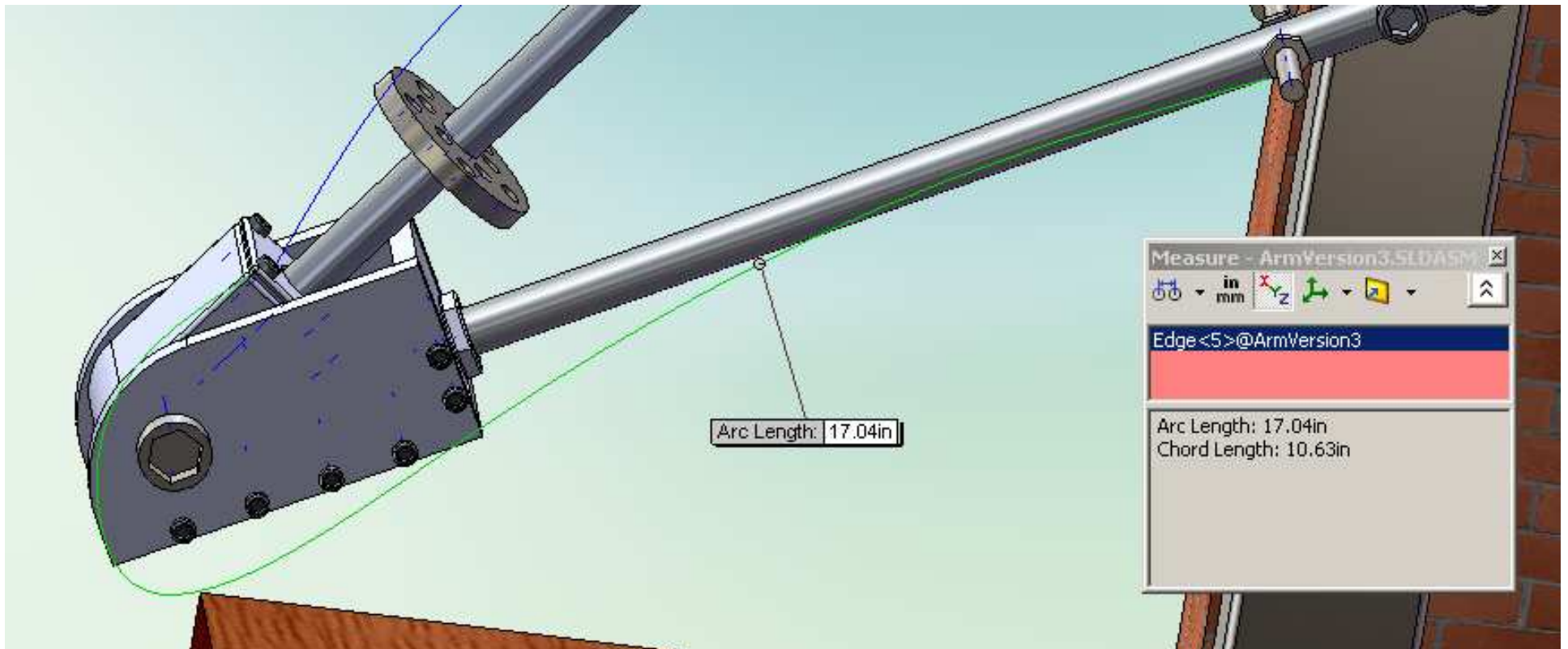
Elbow Extension

- Minimum Distance: 14.60 inches



Elbow Extension

- Minimum Distance: 14.60 inches
- Maximum Distance: 17.04 inches

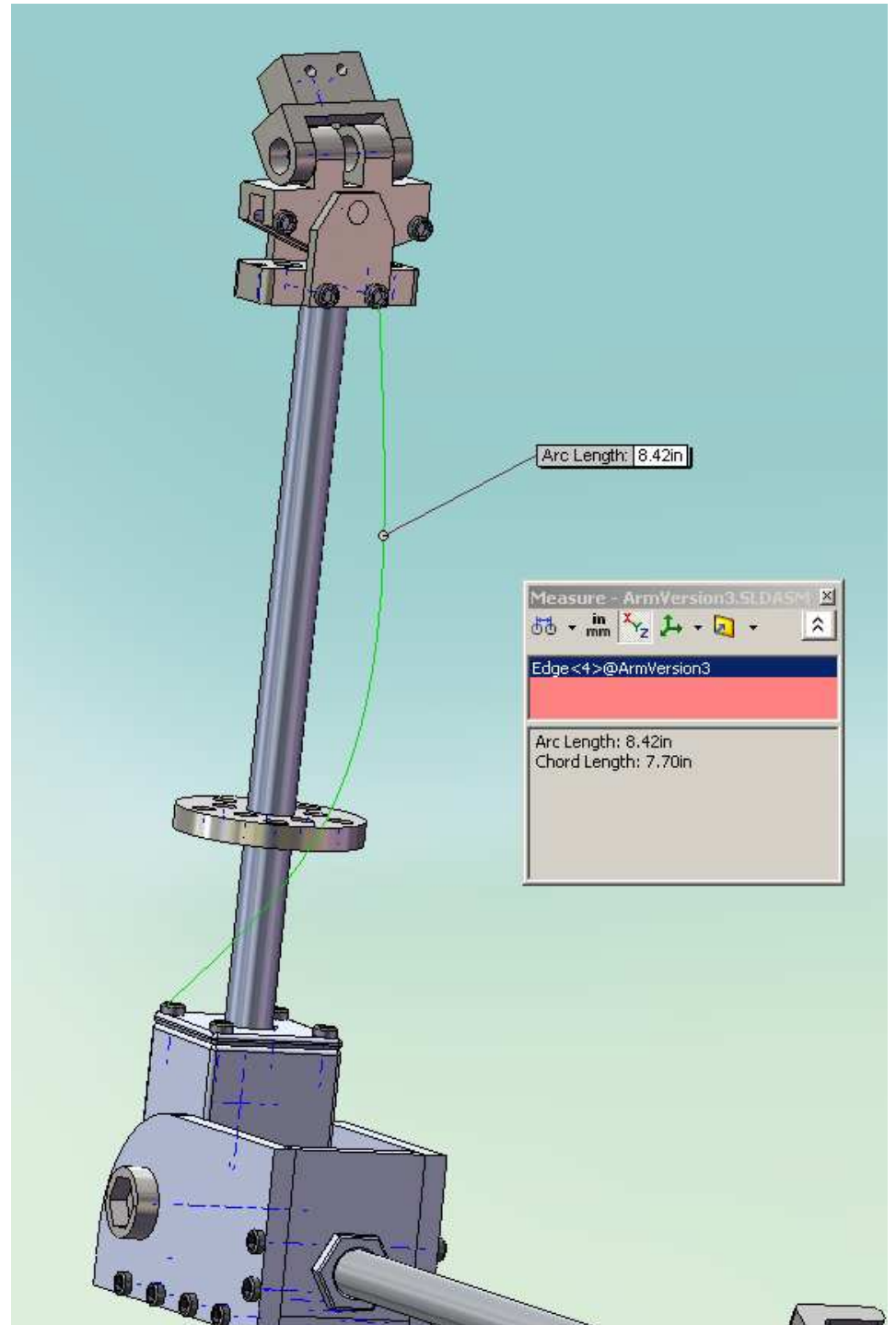


Elbow Extension

- Minimum Distance: 14.60 inches
- Maximum Distance: 17.04 inches
- Total Displacement: 2.44 inches

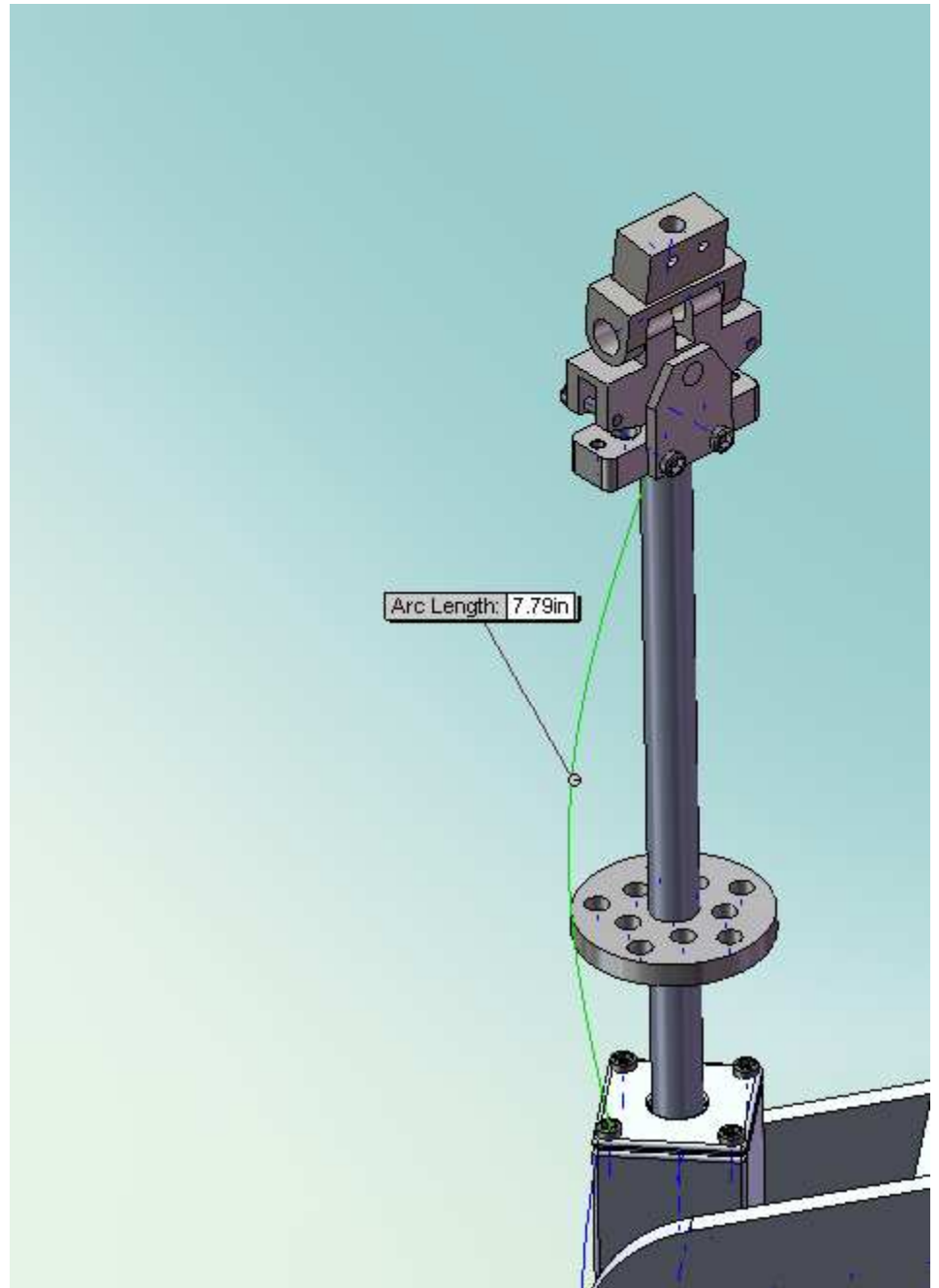
Forearm

- Maximum: 8.42 inches



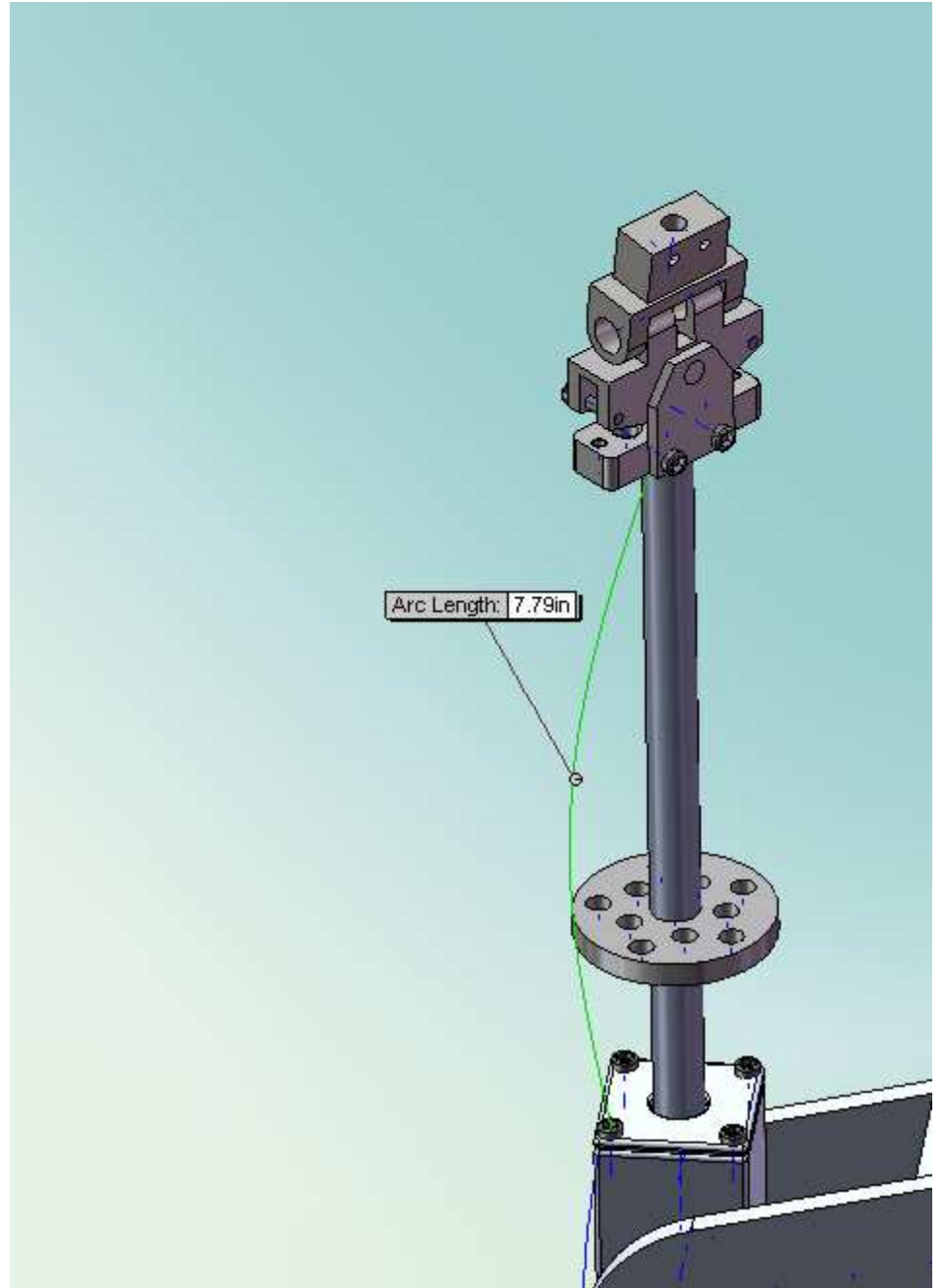
Forearm

- Maximum: 8.42 inches
- Minimum: 7.79 inches



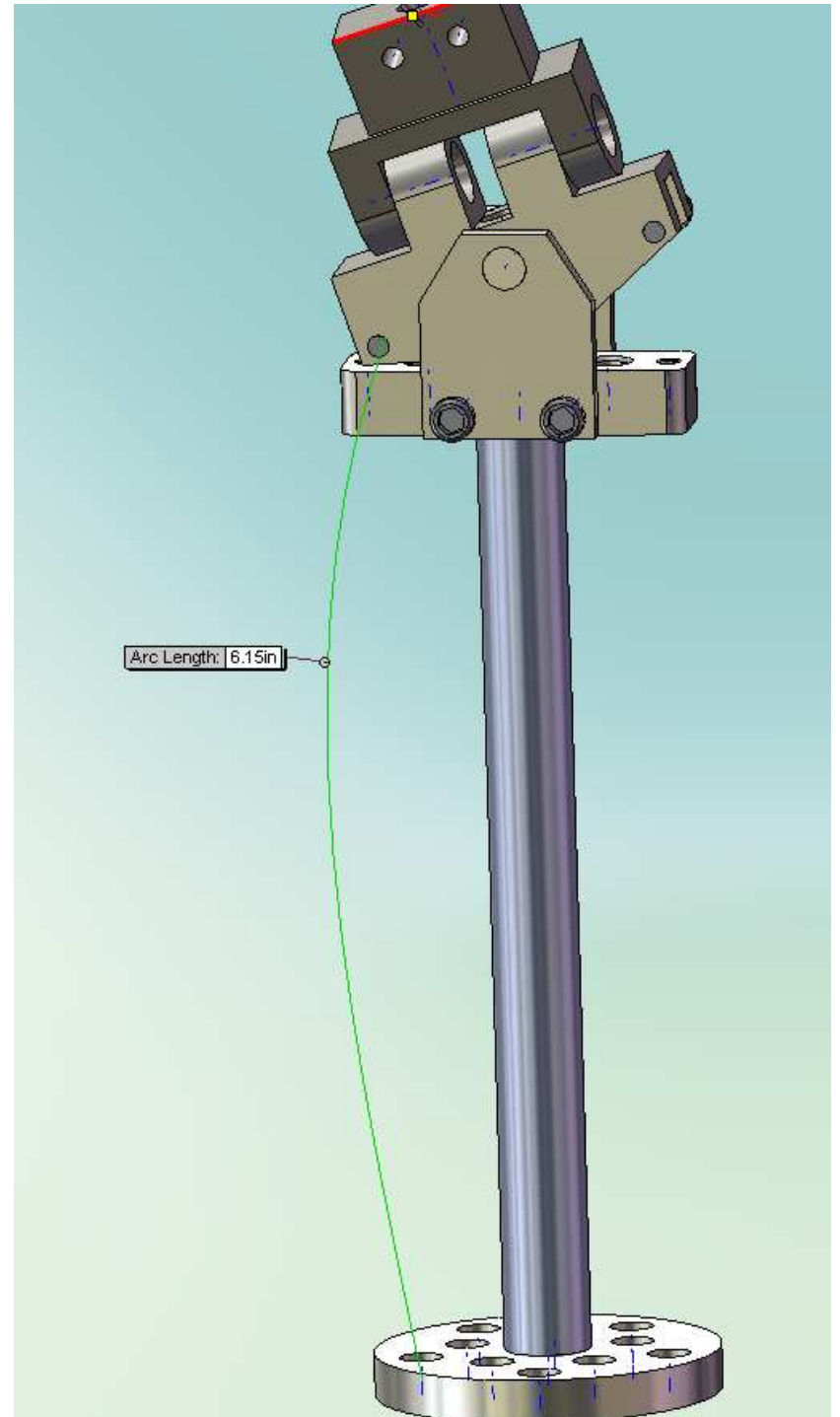
Forearm

- Maximum: 8.42 inches
- Minimum: 7.79 inches
- Total: 0.63 inches
- Rotational muscle layout untested
- Same for reverse motion



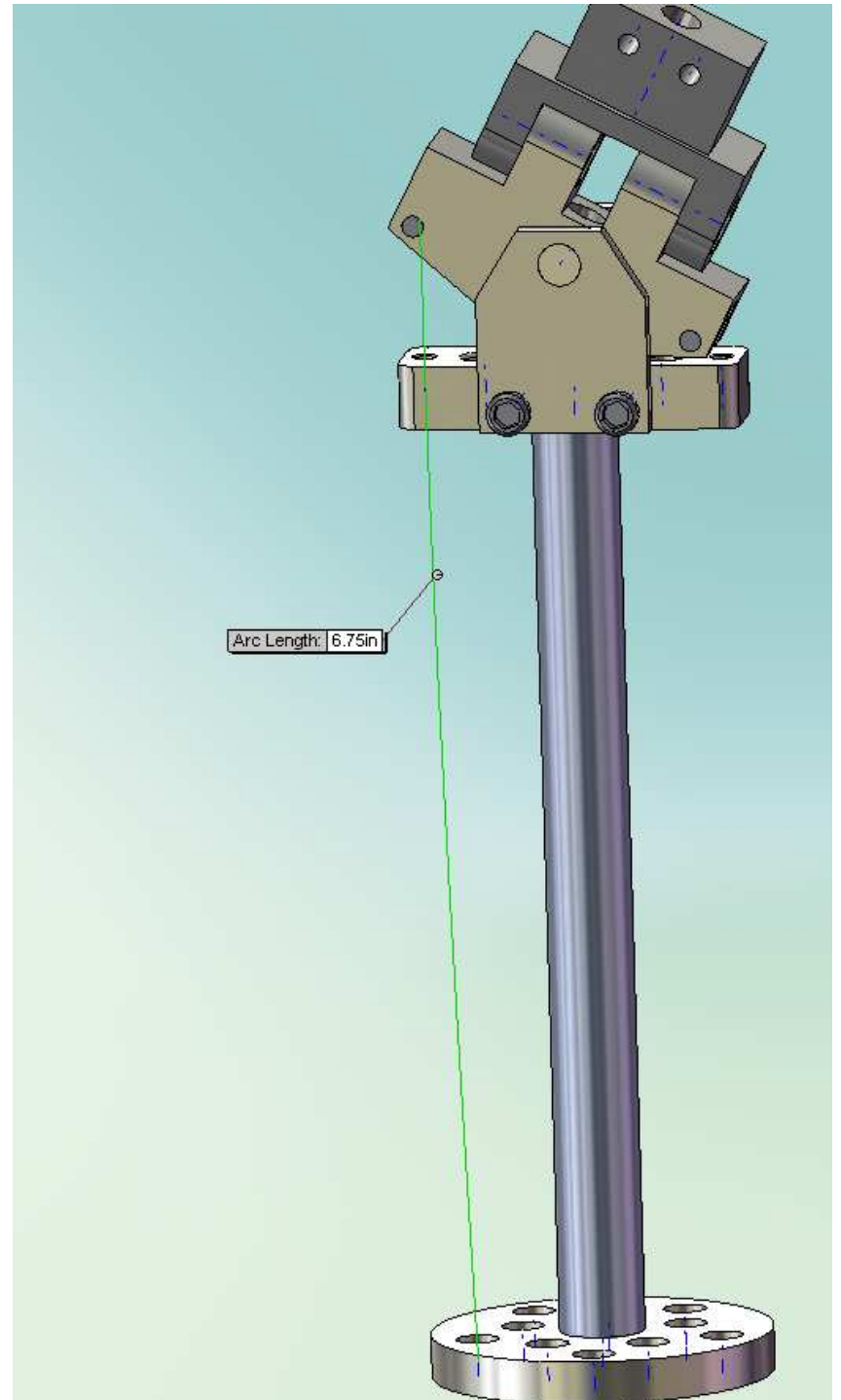
Radial Deviation

- Minimum: 6.15 inches



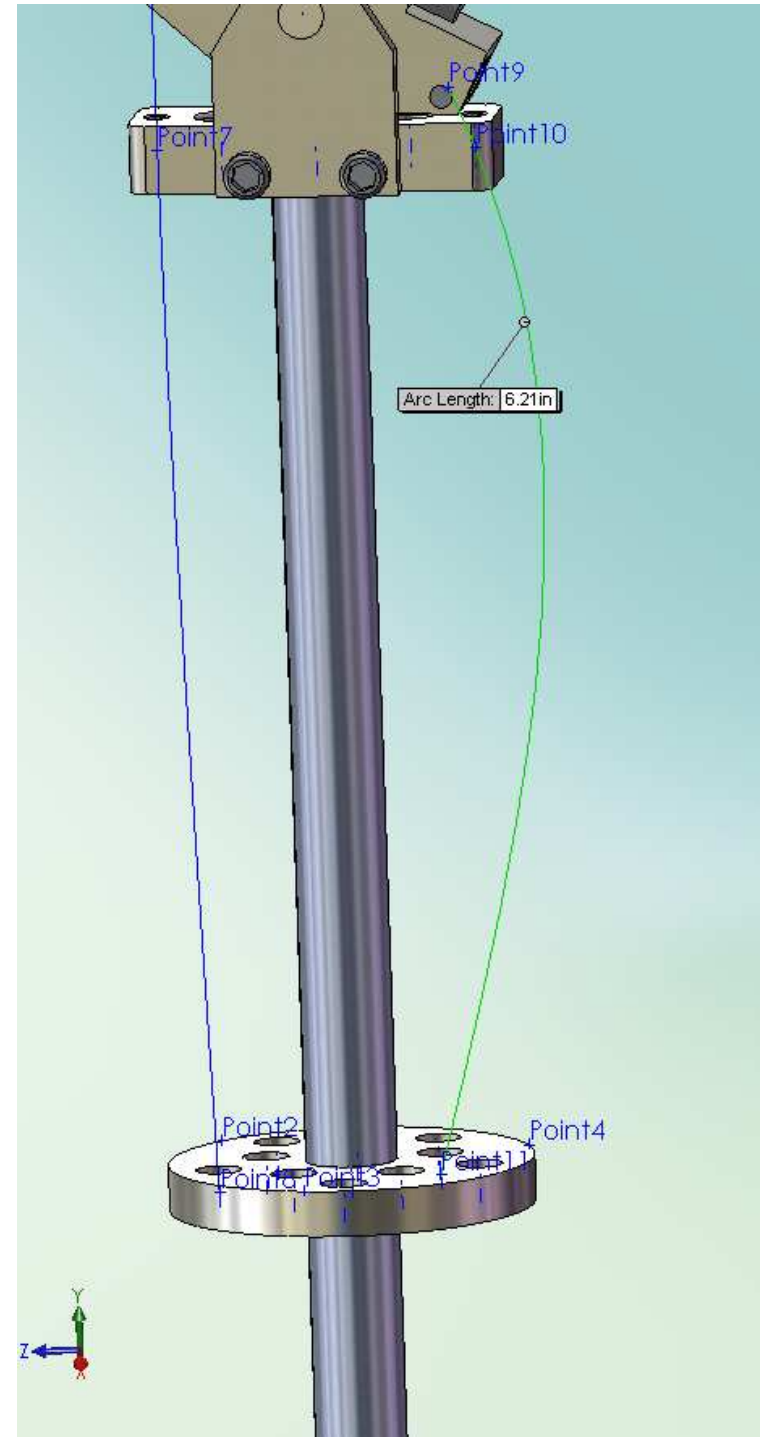
Radial Deviation

- Minimum: 6.15 inches
- Maximum: 6.75 inches
- Total Displacement:
0.6 inches



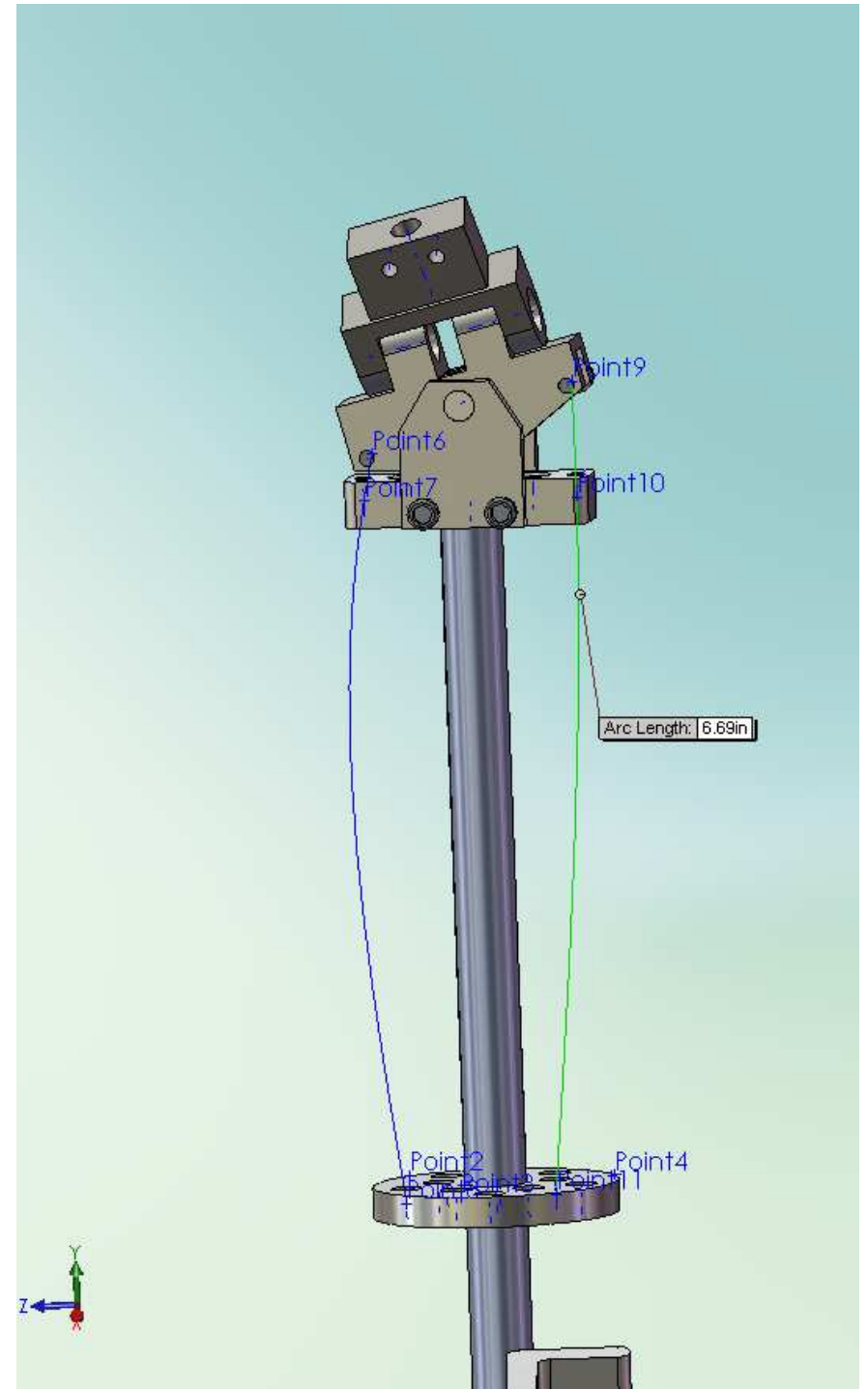
Ulnar Deviation

- Minimum: 6.21 inches



Ulnar Deviation

- Minimum: 6.21 inches
- Maximum: 6.69 inches
- Total Displacement:
0.48 inches



Wrist Flexion

- Minimum: 7.03 inches



Wrist Flexion

- Minimum: 7.03 inches
- Maximum: 8.57 inches
- Total Displacement:
0.54 inches
- Wrist Extension is
about the same

