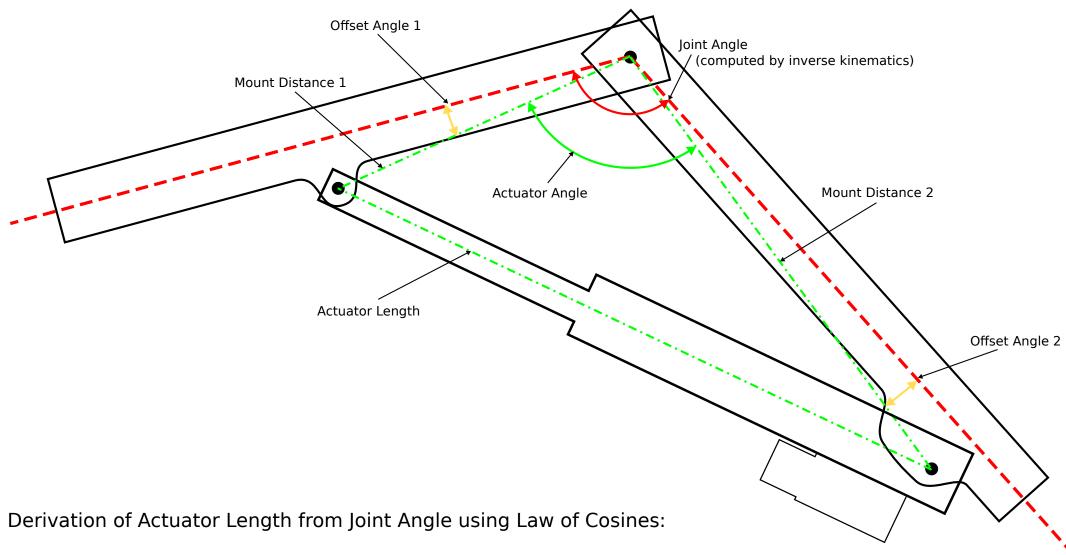
Reference Diagram for Joint Geometry



Offset Angle = Offset Angle 1 + Offset Angle 2 Actuator Angle = Joint Angle - Offset Angle

 $(Actuator\ Length)^2 = (Mount\ Distance\ 1)^2 + (Mount\ Distance\ 2)^2 + 2*(Mount\ Distance\ 1)*(Mount\ Distance\ 2)*cos(Actuator\ Angle)$