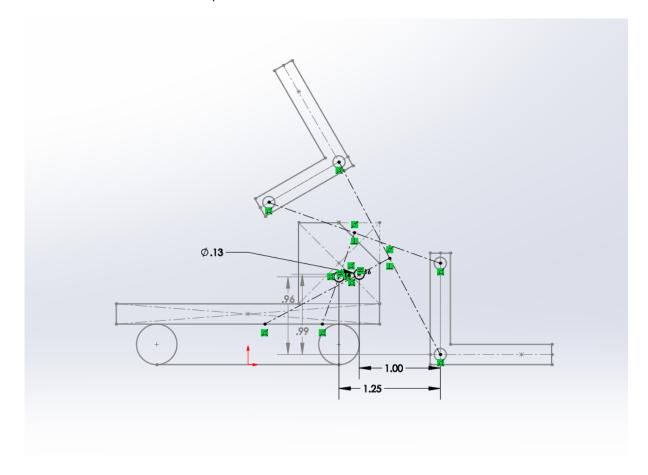
I used solid works to find hole placements that are valid on the robot



Assumptions

Motor is at hole the hole that is 1 foot away from the base joint

<u>Crank</u>

Coupler

1.125

First A

F= 1016

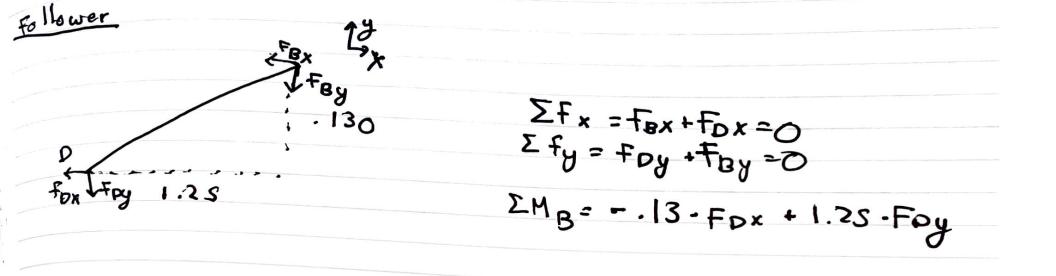
ZFx = Fxx + Fx8 = 0 Efy = Fyx + Fyo - F = 0

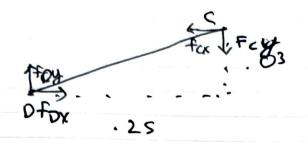
EM A= F8x2. 1.125 + F.1 = 0

Fgx 1.125 = - F

FBX = - F

Fax = - 8.9 lb





$$F_{cy} = f_{Ay} = \frac{.03}{.25} F_{cx} = \frac{.03}{.25} F_{Ax}$$