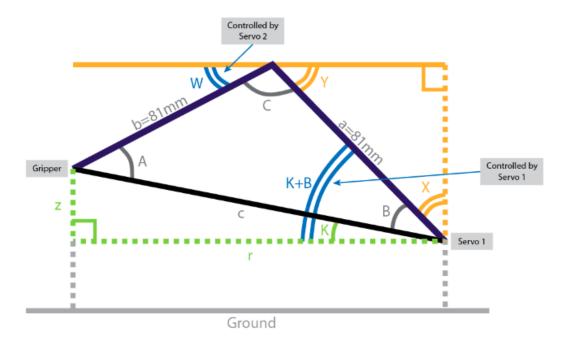
ISTA 303: Assignment 3 MeArm Robotic Arm Kinematics Diagram



Given Y and Z , to get W and B+K

Step 1) Calculate the length of C

$$C = \sqrt{r^2 + z^2}$$

11 pythagorean theory

Step @ Calculate angle C

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

11 Cosine rule

 $C = \cos^{-1}\left(\frac{a^2+b^2-c^2}{2ab}\right)$

step 3 Calculate ande B

11 A=B and A+B+C=18

Step @ Calculate & angle K

Stop 3 Calculate B+K

Step 6 Calculate W