Base rotation control code.

calibration- add a bump switch that gets hit when it pusses origin, and closyn't limit to the rotation of the base, most of the base, prostof the base station code still applies.

UPDATE - ALL BUT ONE DOF IS DONE!

ISTILL NELD THE WATER - + Lets not too hard ...

MOUING THE ARM:

TASKS:

findx

STEP 1 - CALCULATE HOW FARTHE ARM WHERE THE ARMNEWOS TO BE

find dx

STEP 2 - (ALCULATE HOW FAR AWAY THOSE POSTETONS FRE PROM PROPER (DEUTS)

apply X-4X

STEP3 - CAROLATE MOVE AR TOTHE AZGHT POTIZOUS.

StEP 1

needed: desired Light & length - units?

inputs - motor structures, with encodern parts, current dayres, & inter armlengths.

(math transferred from a dittement page)

MA = tan-1 (height) + cos-1 (b2 + height? + length2 - a2)

Z · b · /height2 + length2

TARGET MA = fan (targetleight) + cos ((shoulder length) + target leight + target length - (el sow length) 2

2. shoulder length . Theight right leight + tryetlaght 2

(URRENTMA = get corrent Angle (shoulder base lift); // needs calibration first.

MB = tan (length) + cos - (height 2 + length 2 + a2 - b2)

7 · a · \length \text{height} + length 2 + (el bowlength) 2

TARGETMB = tan (target length) + cos (terget length 2 + target length 2 + (shoulderlength) - (shoulderlength) - (shoulderlength) - (shoulderlength)

(URABATMB = get Correct Angle (elbow lift); " Much colisation first - uses Late & reform coursent any lefton relative origin,

TARGET ANGLE (= cos-1 (elsowlength2 + shouldvlength2 - (height2 + longth2)

(the elbow)

Corrent Angle (= get Corrent Angle (el soulit) (meads calibration liest ...

(in Degrees)