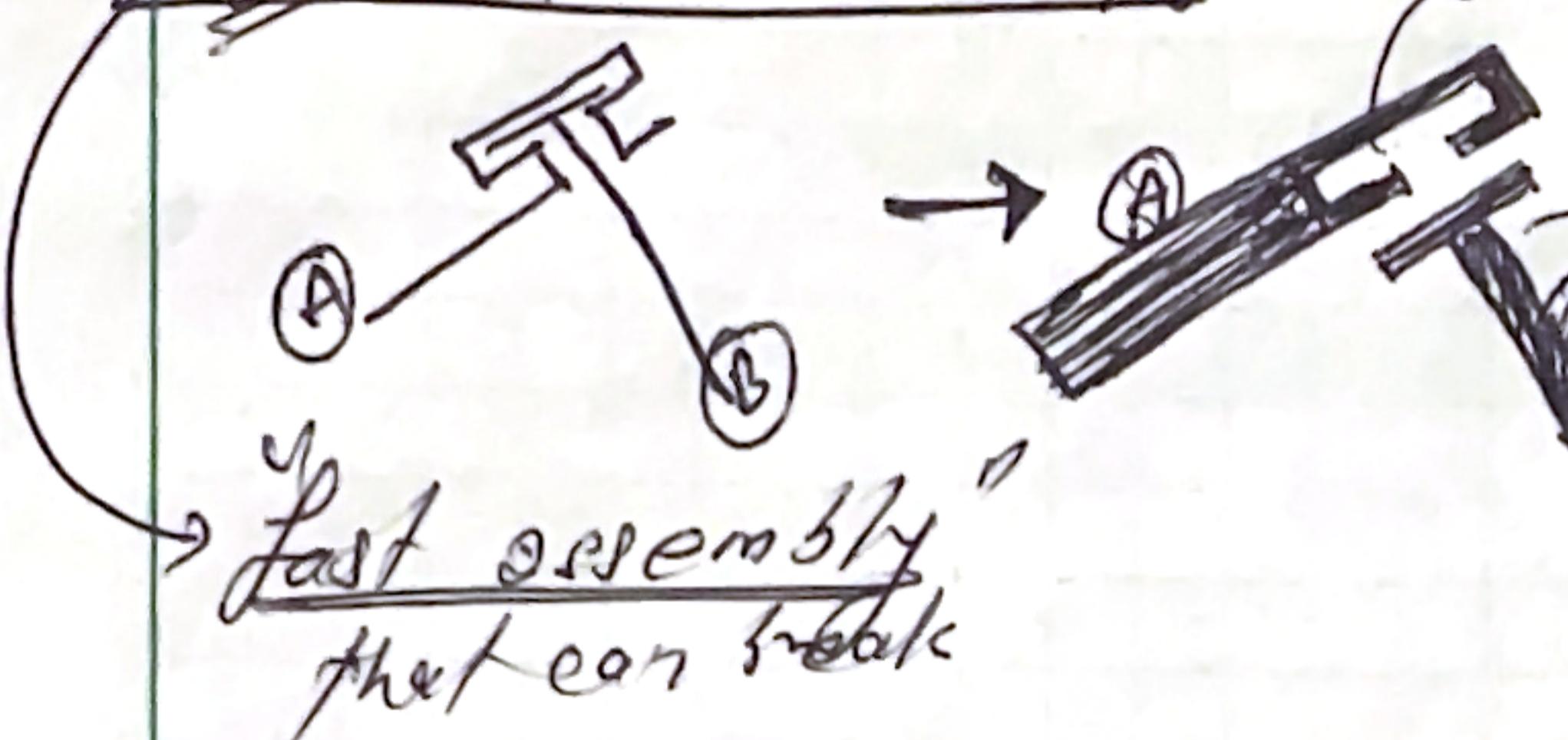


F-hock Design

~~Build an autonomous
chicken plucker for Nepal~~



Fast assembly
that can break

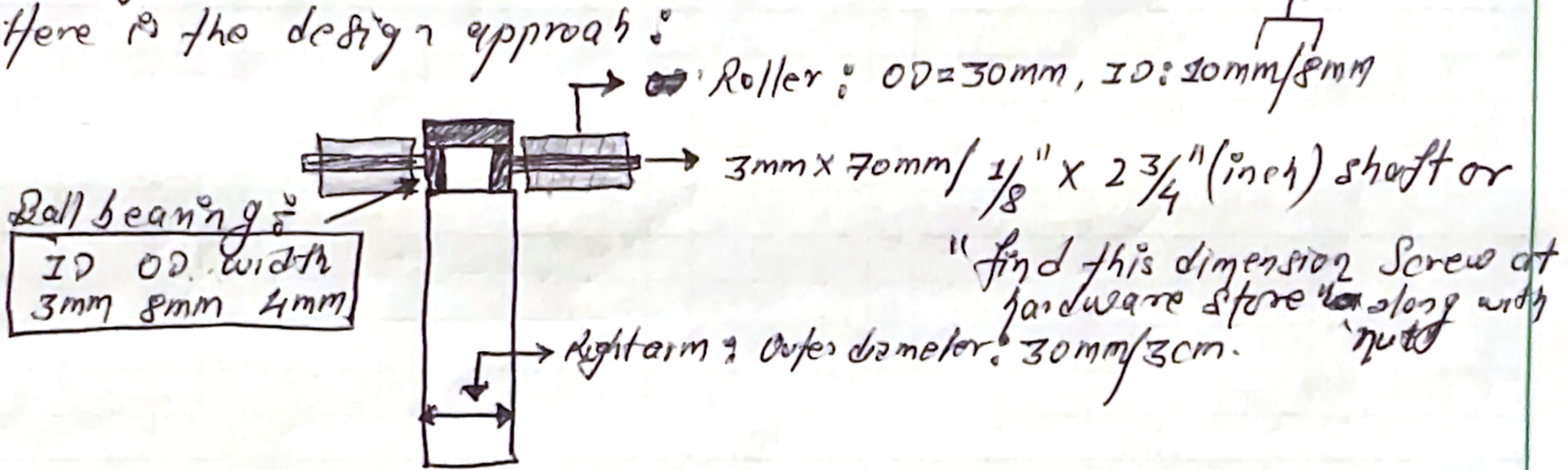
Requirement: Design a solar system to recharge battery that runs water pump to ~~water~~ ^{water} ~~chicken butchering machine~~
= ~~chicken butchering machine~~
if it becomes hard to sink in
then 'C' & 'T', add wheel &
spring at 'T' to make a smooth
locking mechanism. Wheel reduce
friction. Also, make sure 'C' is
curved, so that wheel from 'T'
can roll in well without having the
arm (B) struggle to lock it.

For now, let make it simple without
adding wheel or spring.

I finally choose to add wheel as well, at 'T'!

"for bearing to fit in"

Here is the design approach:



Why I decided to use "above mentioned" bearing size instead of using bigger bearing?

Because of weight problem. You see these bearings are already at the tip of the arm, hence already oversressing the servo motor at the bottom end of the rod. Biggest one is about 40g, whereas as smaller one I have is just 19g. Admire of using bigger one would be I may ^{not} have to use metal shaft, since 30 mm of plastic shaft would be able to handle the pressure/force, not guaranteed though, whereas as using smaller bearing because of wt constraint automatically will go for metal shaft for some reason. Question now is

what about the wt of metal shaft & smaller bearing? If they exceed the wt of using bigger bearing, would it be still good idea to use smaller one?

=> My preliminary study find the wt isn't still exceed.