Questions:

1. Can you give us a block diagram for the cobot?
   1. Will find/make one
2. Specific OPN for Motor Driver, Power IC, C2000 MCU
   1. 8161/8162 (base 8161 what we want)
   2. Look into boost converters, regulators (look into this once everything else is more defined)
   3. C2000-F280049C
3. Specific motors that are best suited for our motor driver
   1. BLDC (brushless motors)
4. Is the motor driver a 1-1 pairing with a motor (ex 1 motor for 1 motor driver?)
   1. 3 motor drivers for 1 motor (specifically for the 8161)
5. Does TI have any reference designs for cobots/robots?
   1. Will check/find another source
6. Softwares that will be required to complete the project? Altium, Solidworks, any third party?
   1. Altium (PCB design)
   2. C2000 CCS TI software (motorware sdk)
   3. AutoCAD (AVS 3D material) (PVC pipe)
7. Do you recommend creating a physical controller or designing a phone app to control the robot wirelessly?
   1. Phone app (wifi or bluetooth)
8. Can we connect a wireless/bluetooth hub to the robot as the connection point between the cobot and control device?
   1. Bluetooth Driver or Wifi Card
9. Clarifying the load we will be carrying (boxes, metal, small items, etc.)
   1. Up to us, able to show its use case (caters to the industry well)
   2. Can be a specific-sized box with different weights, can function like a crane game, picking up items with a tweezer-type device
10. If we are trying to show different use cases, should we have pinchers and a hook in a 2-in-1 setup or interchangeable?
    1. two options are ideal
11. Cost breakdown, how to budget the 400 well
    1. Try to state cost-effective but necessary things can be written off (motors, material cost, etc.)
    2. May need to pay out of pocket if there is a time constraint
12. Design of cobot?
    1. 4-5 either 1 or 360 degree rotation points.

Motors:

AM0820-V6 DC Motor

<https://www.faulhaber.com/en/products/series/am0820/>

# Nema 34 Stepper Motor

<https://www.amazon.com/Stepper-Motor-4-5Nm-Length-Router/dp/B077XF6LG2/ref=asc_df_B077XF6LG2/?tag=hyprod-20&linkCode=df0&hvadid=693392717738&hvpos=&hvnetw=g&hvrand=11878537495749897895&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9027902&hvtargid=pla-469239435305&psc=1&mcid=68bab0f0cb533d6c8a27cb497db7f2a3>

Takeaway:

* Reduce payload to 1-3 lbs max
* Get part list approved by joshua by friday
* Ask about realistic expectations
* Align on an arm pincher (amazon??)
* Go over scope again
* Block diagram flowchart