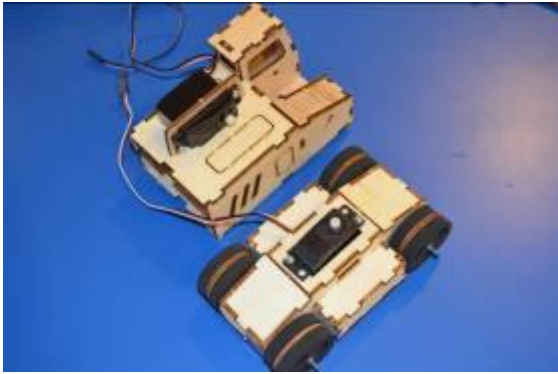
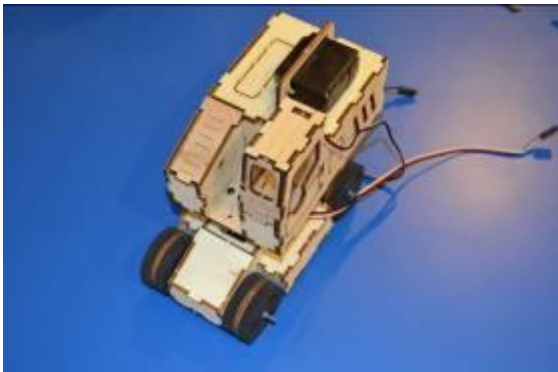


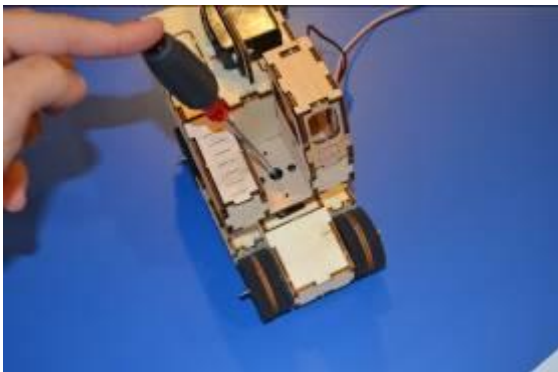
Excavator- 6



First, check all the parts from the previous lesson plan. If needed apply more glue on the parts and let them dry as we continue with today's lesson. Once checked and completed, continue. We are finishing the model today. In case you don't have enough time, continue the assembly in the next lesson.



Take the cabin and place it on the base



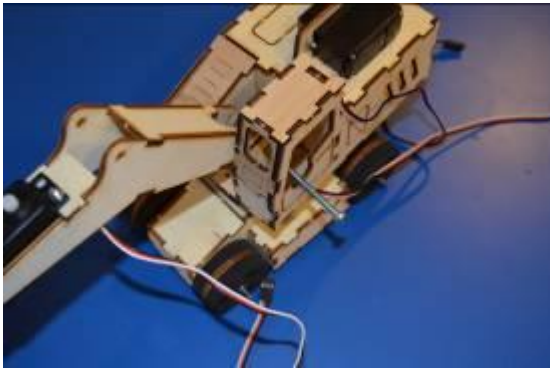
Using a bug screw, secure the parts together.



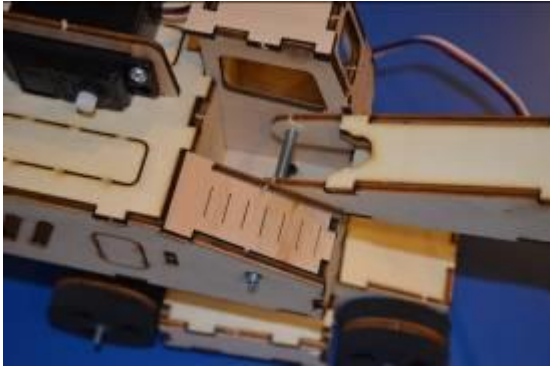
We are going to assemble the large arm onto the model.



Hand each student a large (60) screw and the special locknut the goes with it.



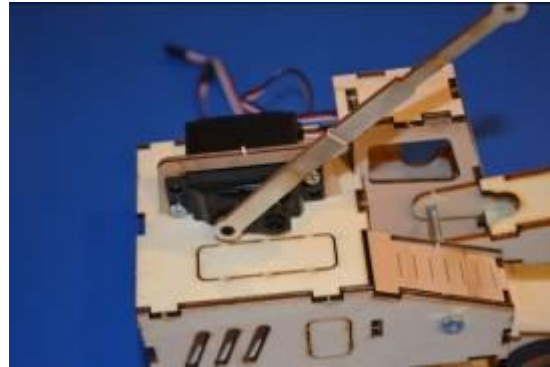
Place the arm on the body between the two front compartments. Make sure the servo is facing up. Align the holes and insert the screw from the driver's seat.



Once inserted, make sure the screw goes through the arm.



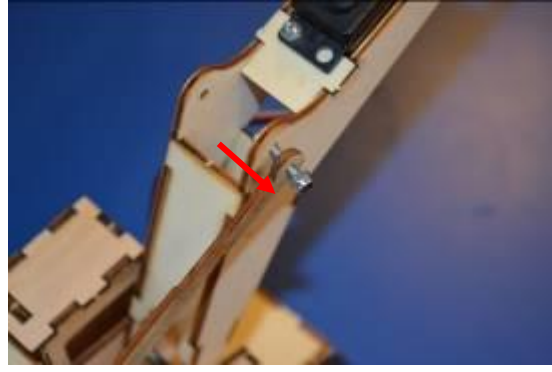
Once inserted, make sure the screw goes through the arm and out on the other side of the cabin. Place the nut on the screw, tighten, but make sure the arm can move freely



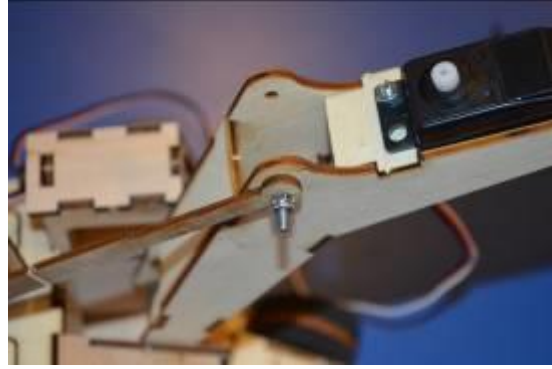
Take the single long arm (with the $\frac{1}{4}$ servo head) and place it on the servo sitting on the body. Tighten it to its place using a bug screw.



Hand each student one 15 screw and 1 NYLOCK locknut.



Connect the single arm to the large one. Insert the screw from the inside and place the NYLOCK on the outside.



Once checked, tighten the screw, make sure not to over tighten the parts, they should be able to move freely.



Hand each student one 30 screw and 1 NYLOCK locknut.



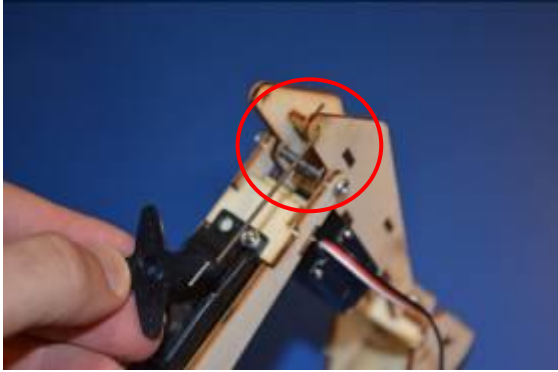
Small arm and assemble it onto the long arm, the connecting holes are the ones closest to the servo. Once checked, insert the screw and tighten with the NYLOCK. Parts should move freely.



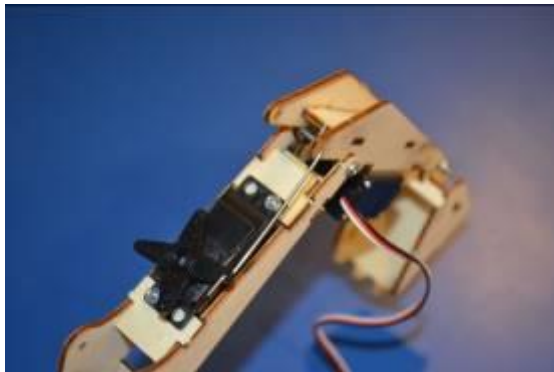
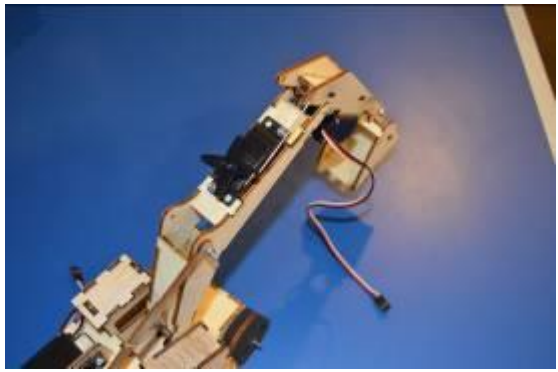
Hand each student one metal bar and one servo head.



Insert the bar into one of the furthest holes on the servo head.



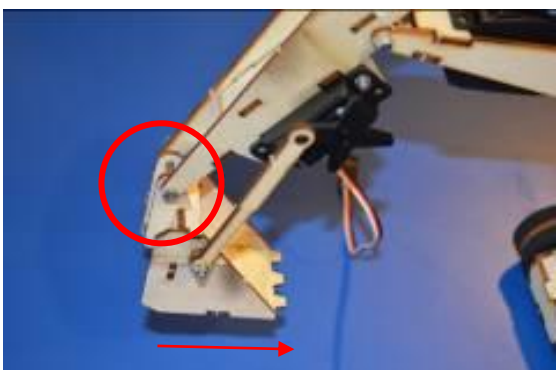
The other side of the metal bar insert into one of the rear holes of the shorter arm (red circle)



Place the servo head on the servo and secure it using a bug screw.



Hand each student one 30 screw and 1 NYLOCK locknut.



Concentrate on the part circled in red!

Connect the bucket to the short arm, using the 30 screw. Make sure not to over tighten the screw. The bucket should be facing the model (red arrow)



We are going to connect the last part to the model. Each student should have a small spacer (wooden circle part). If a student lost his part, he can use a regular locknut as a spacer. Hand each student one 15 screw and a NYLOCK locknut.



Insert the screw from inside the bucket, slide the wooden spacer on top of it from the outside.



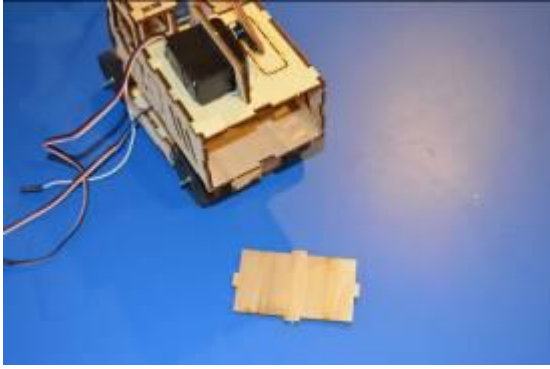
Take the short single arm we assembled in the previous lesson.



Slide the large hole onto the screw. And tighten the NYLOCK onto the screw. Make sure the parts can move freely.



Place the servo head onto the servo, secure it in its place with a bug screw



Before finishing the model contact your manager and ask for direction regarding the controller assembly.

DO NOT ASSEMBLE THE CONTROLLER WITHOUT APPROVAL.

