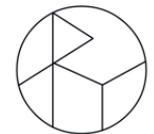
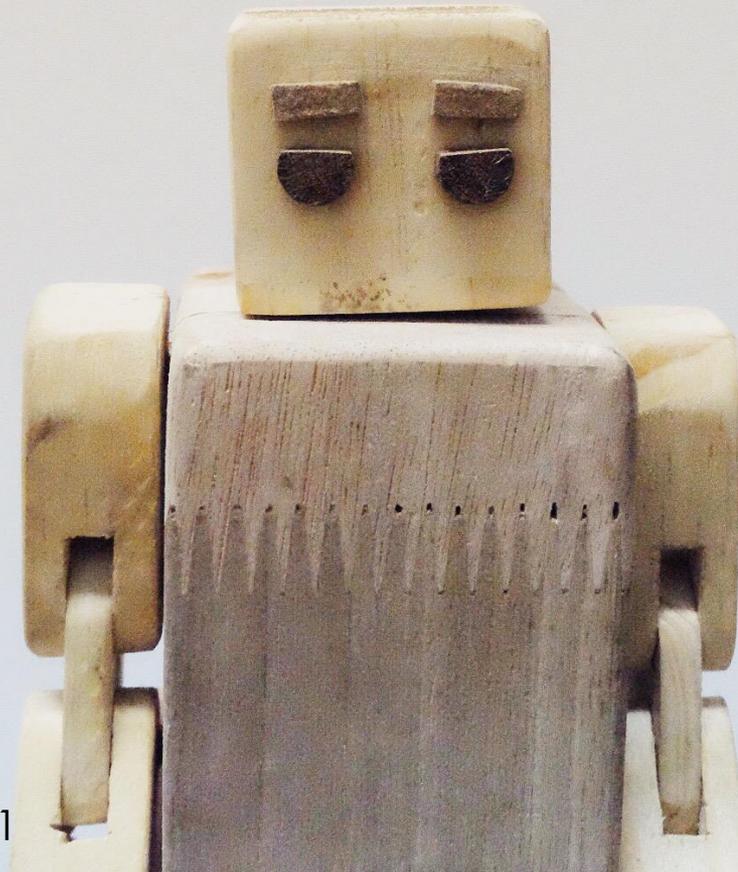


WOOD ROBOT TUTORIAL



RAIVAN 1305003591

MATERIAL

1. Pine wood [Thickness 2cm]
2. Pine wood [Thickness 5mm]
3. Mahogani [Thickness 2mm]
4. Dowel [Diameter 1cm]
5. Dowel [Diameter 7mm]

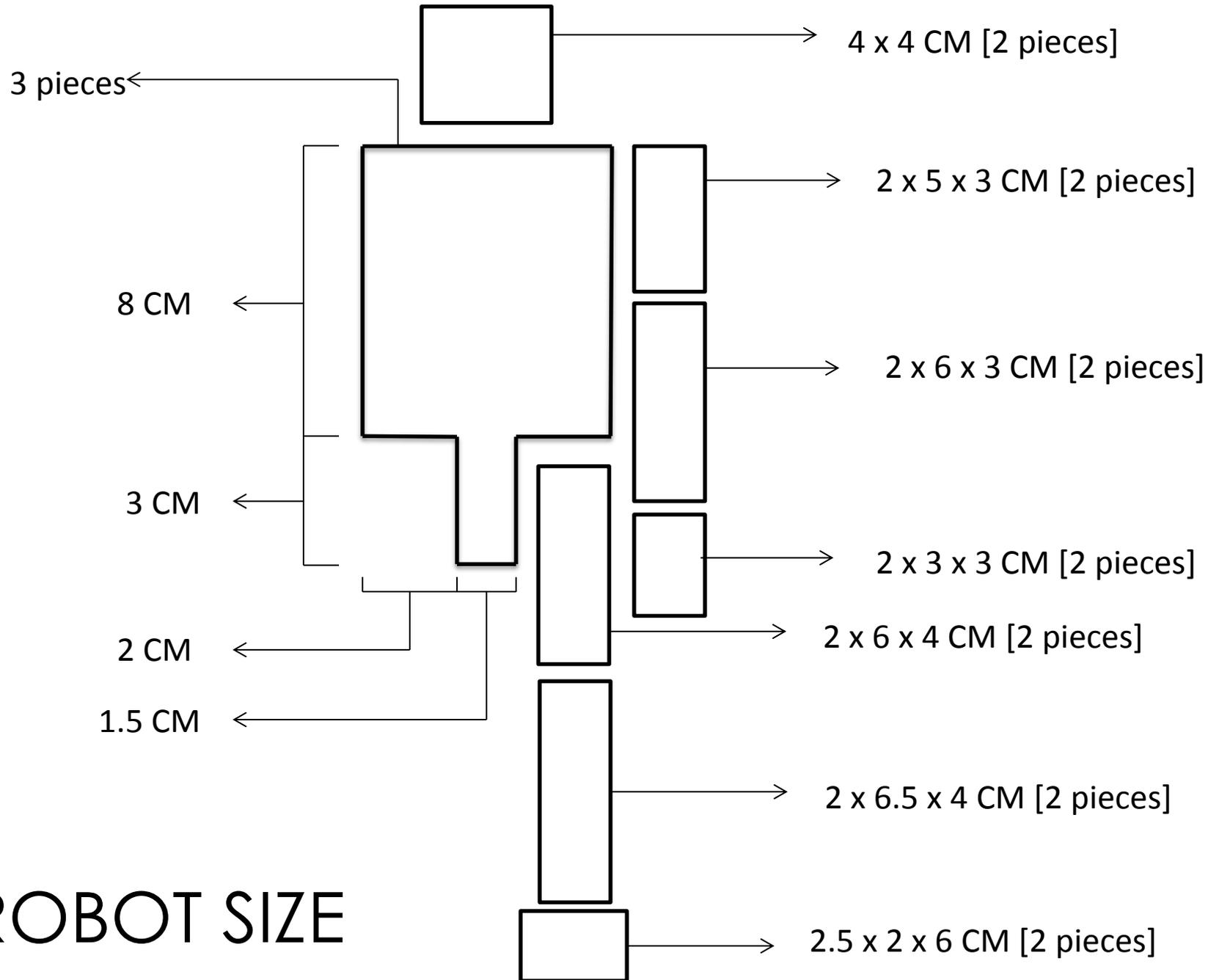


TOOLS

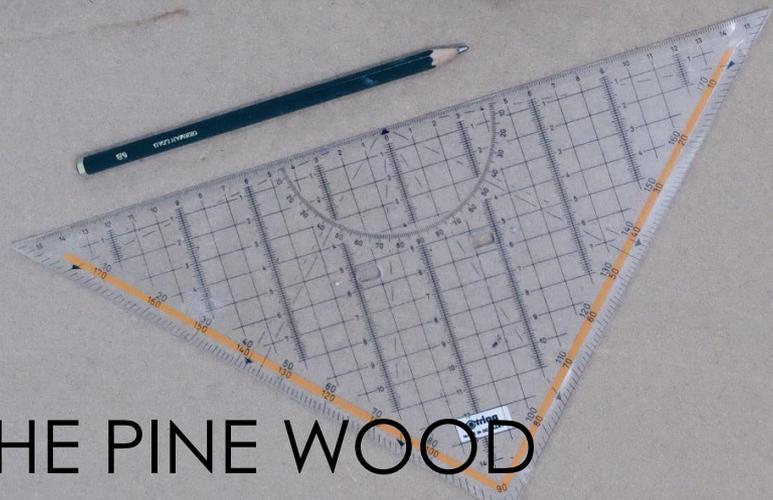
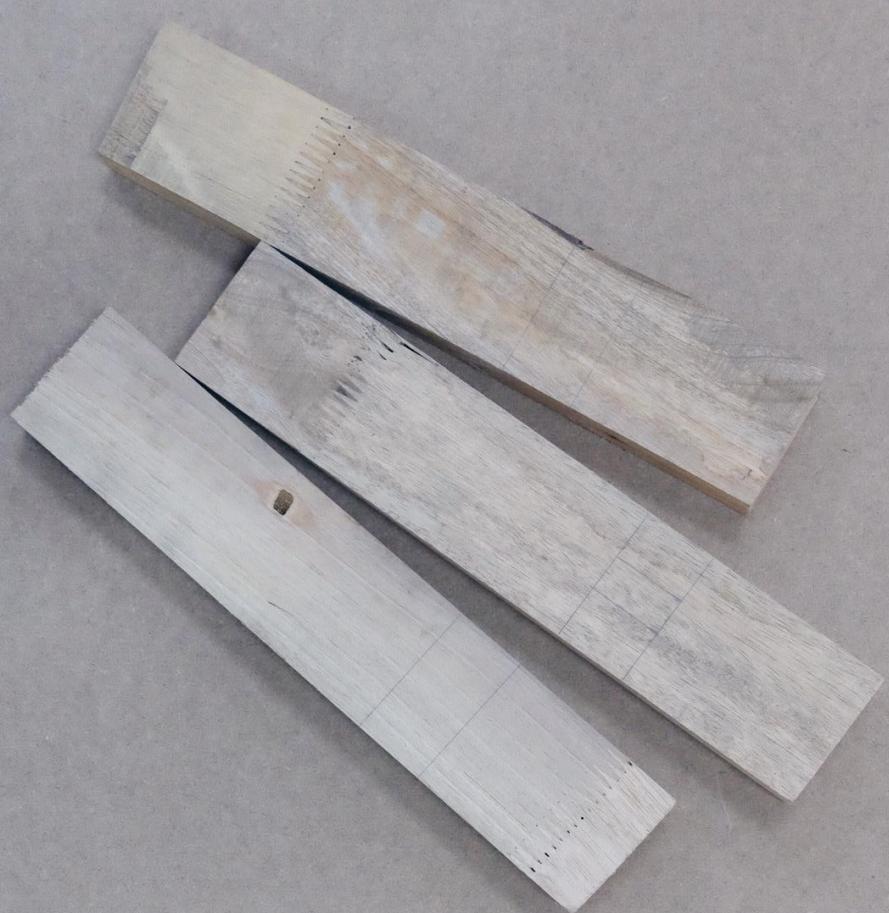
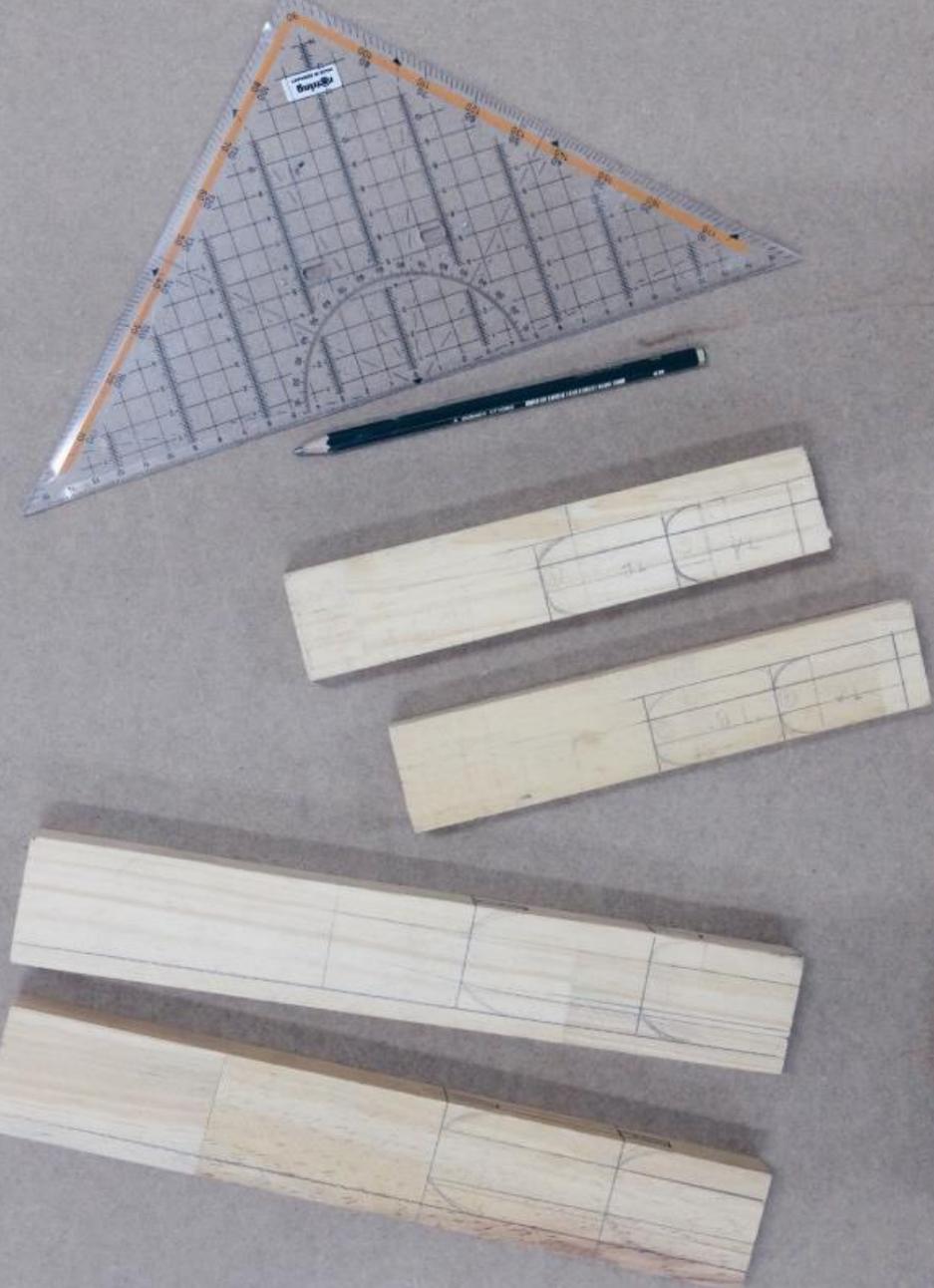


1. Sawatau Screw Saw
2. PVAc Glue
3. Drill 8mm
4. Pencil dan ruler
5. Sandpaper rough and fine
6. Klem





ROBOT SIZE



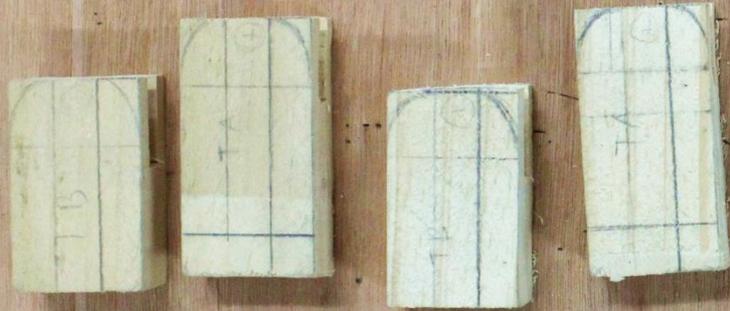
DRAW ROBOT PATTERN ON THE PINE WOOD



Nip the pine wood that already have a pattern with table klem.

Cut the wood with saw.





Hands



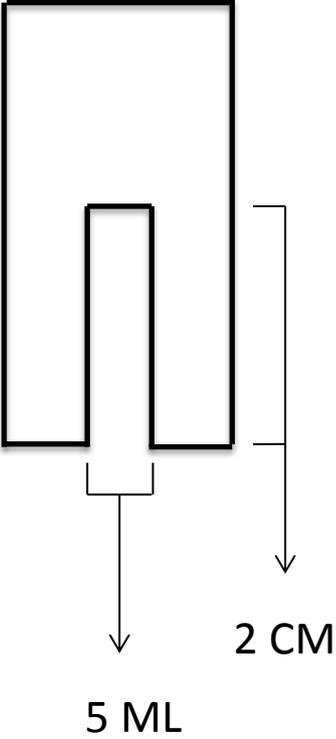
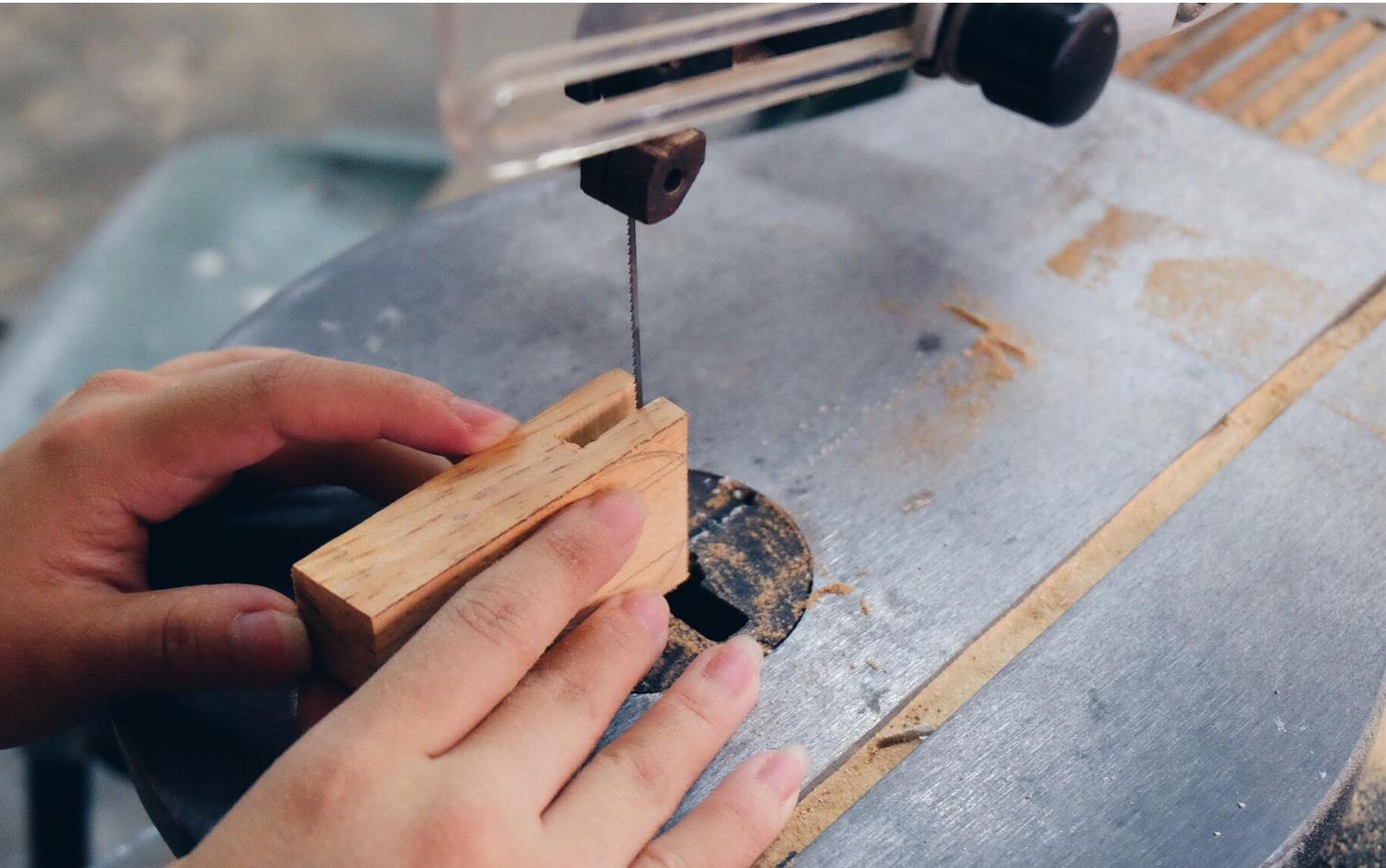
Legs

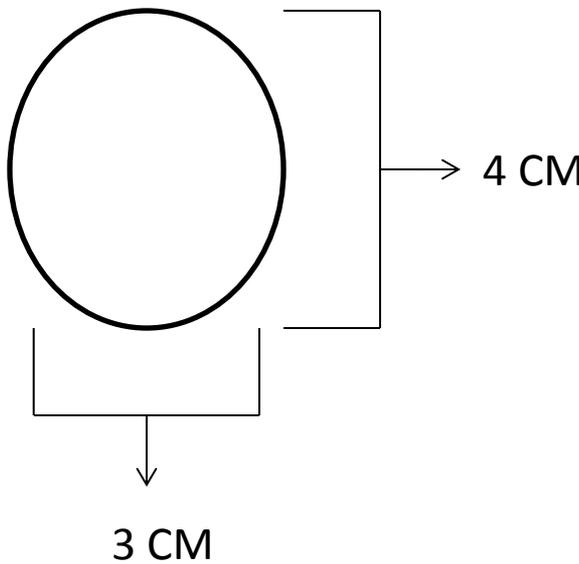
Cut all the pattern on the pine wood for hands and legs so it will become 4 pieces for hands and 4 pieces for legs.



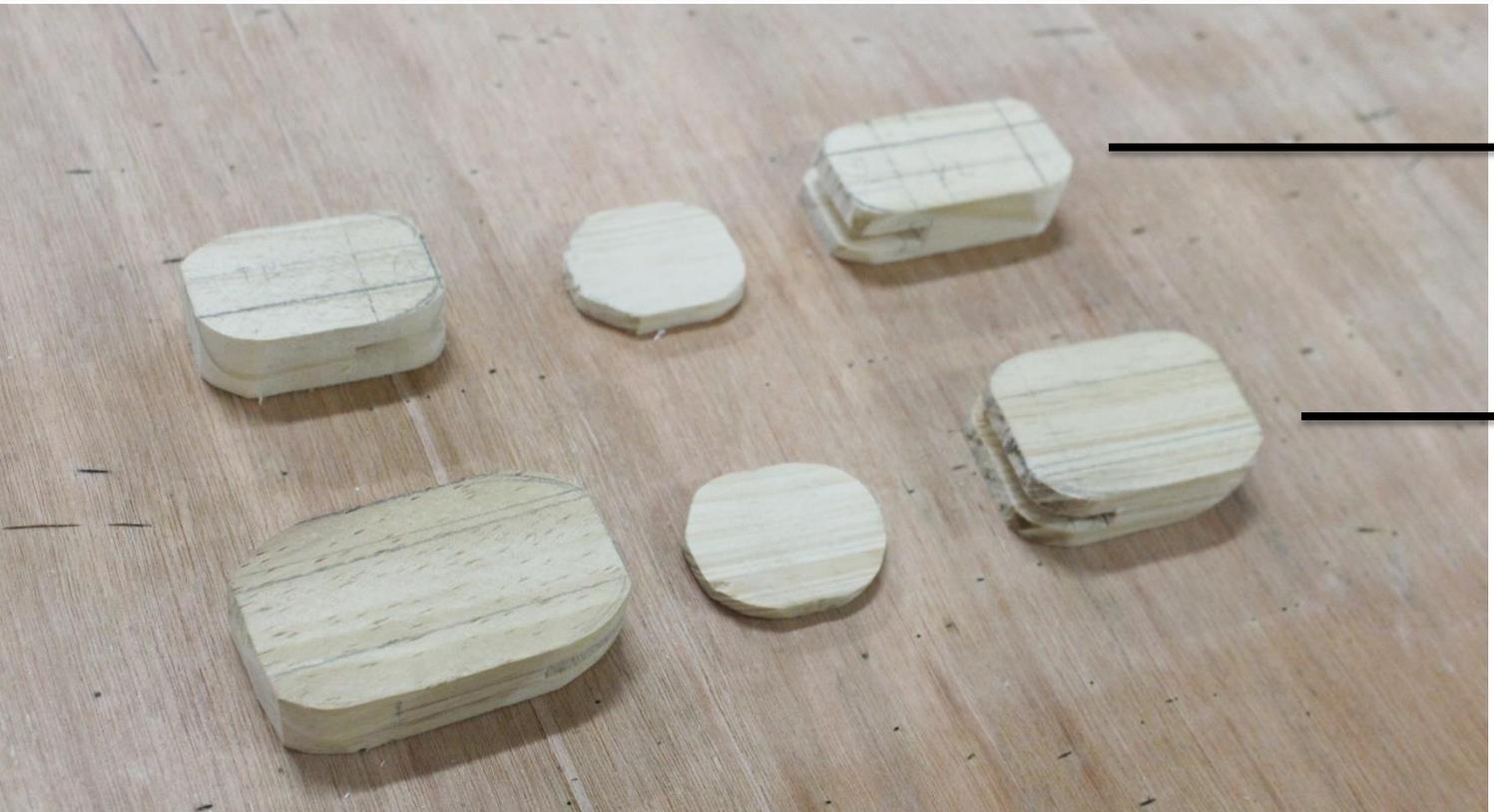
Use rough sandpaper to make the edges curved.

Cut the side of the wood between arms dan legs for joinery with screw saw.





Joinery between upper hand and lower arms and also between thigh and calf.



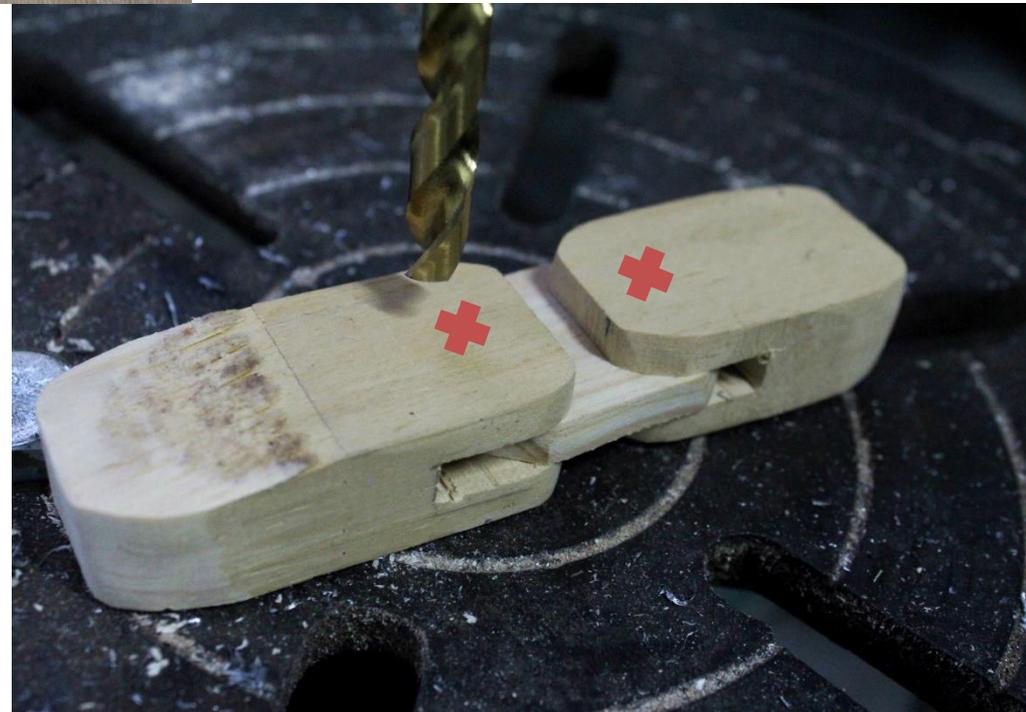
Hand

Leg



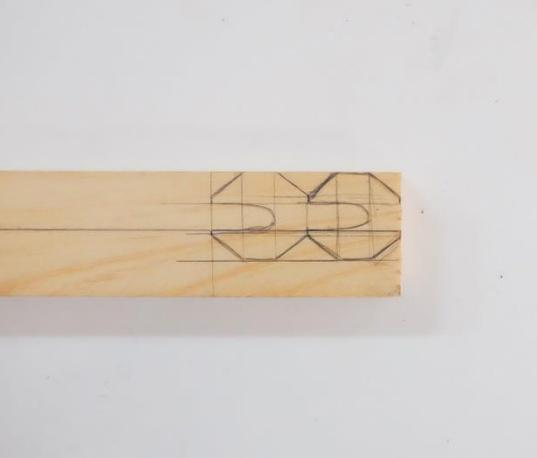
Make 1 CM gap between the upper hand and lower hand. Do the same with the legs part

Drill both part with 8mm drill bit.



Cut the dowel [2 CM] and put in through the holes.
Do the same things to the leg parts.





Draw patterns for the hand parts [3 x 3 CM]
Cut and drill the hand parts and the wrist.
Put the dowel with diameter 7mm [1.5 CM] and join the hand and the wrist.



Cut the pine wood for the feet parts.
Make the holes on the feet and the leg parts.
Put the dowel with diameter 7mm [1.5CM] through the holes
Use rough sand paper to make the feet smoother.

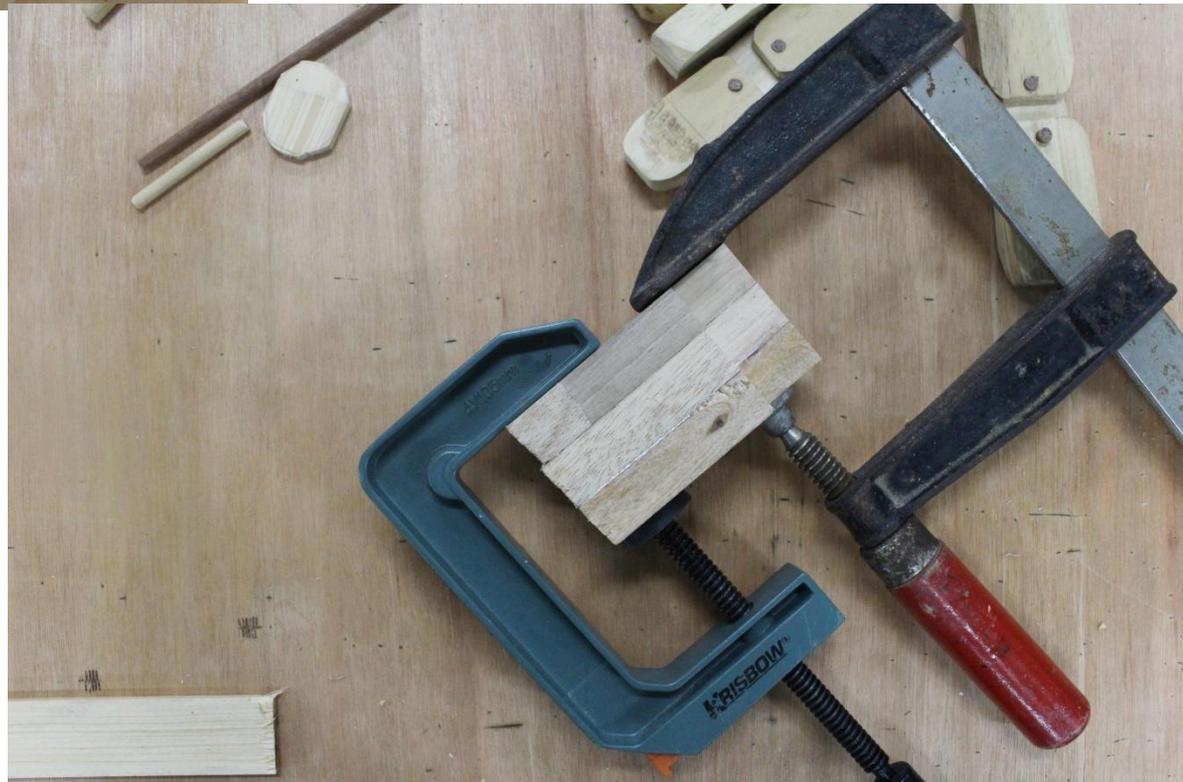


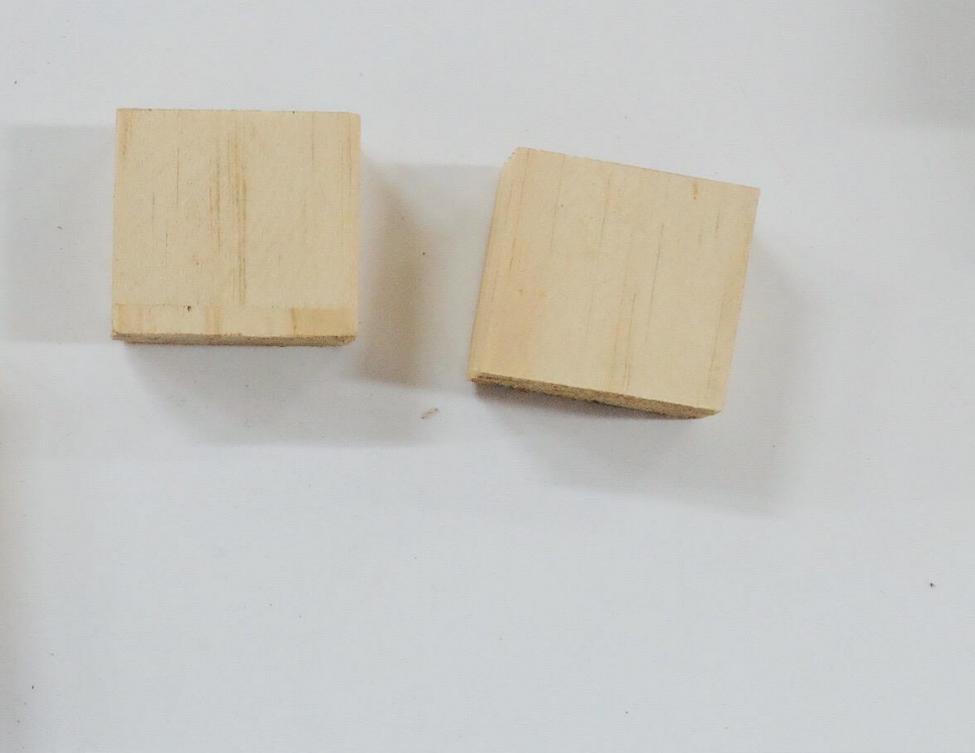
Cut the mahagoni wood for the body part into 3 pieces.



Glue 3 pieces of the body with PVAc glue.

Hold the body with the klem and leave it for a day so the glue will stick perfectly.





Cut the head parts into 2 pieces and glue it with PVAc glue

Hold the head part with klem for a day until the glue stick perfectly.





Make a 3 holes on the upper side for the head and the left and the right side for hands by using drill.

Drill the lowe body part for the leg.



Cut the 7mm dowel [5.5CM]

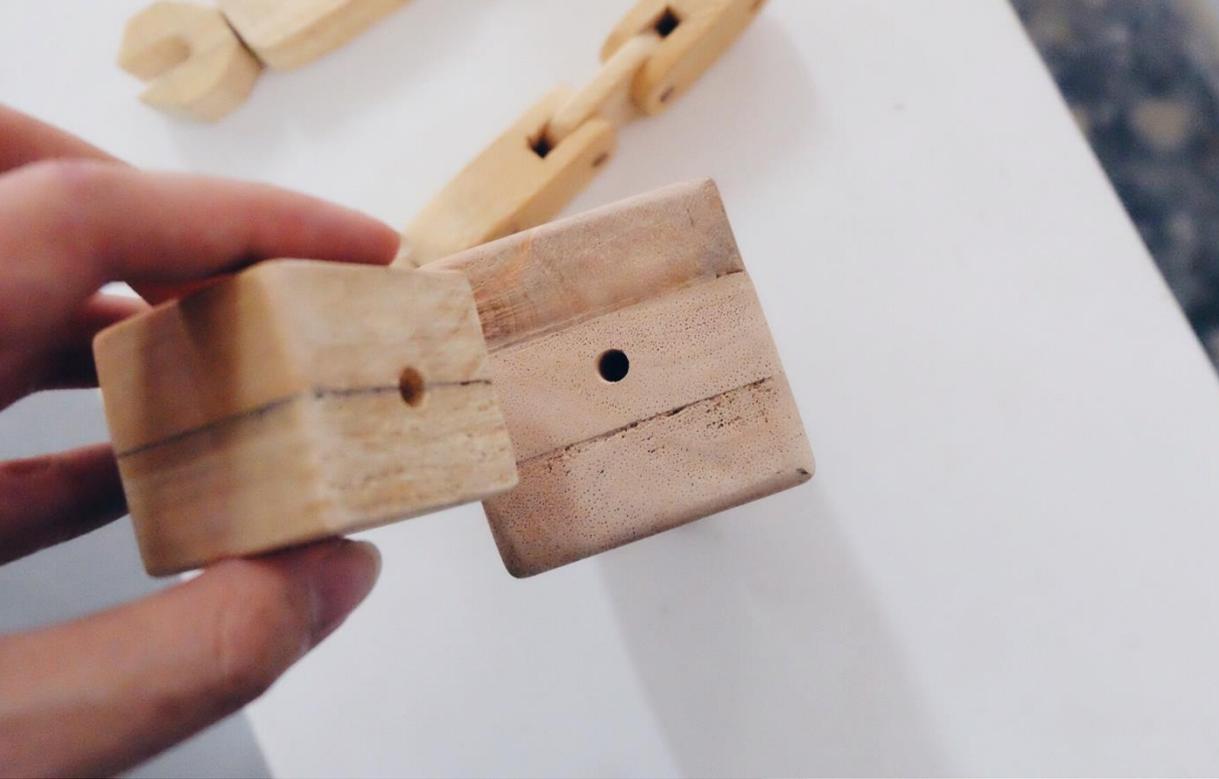


Put the dowel 7mm through the hole between legs and the body part.



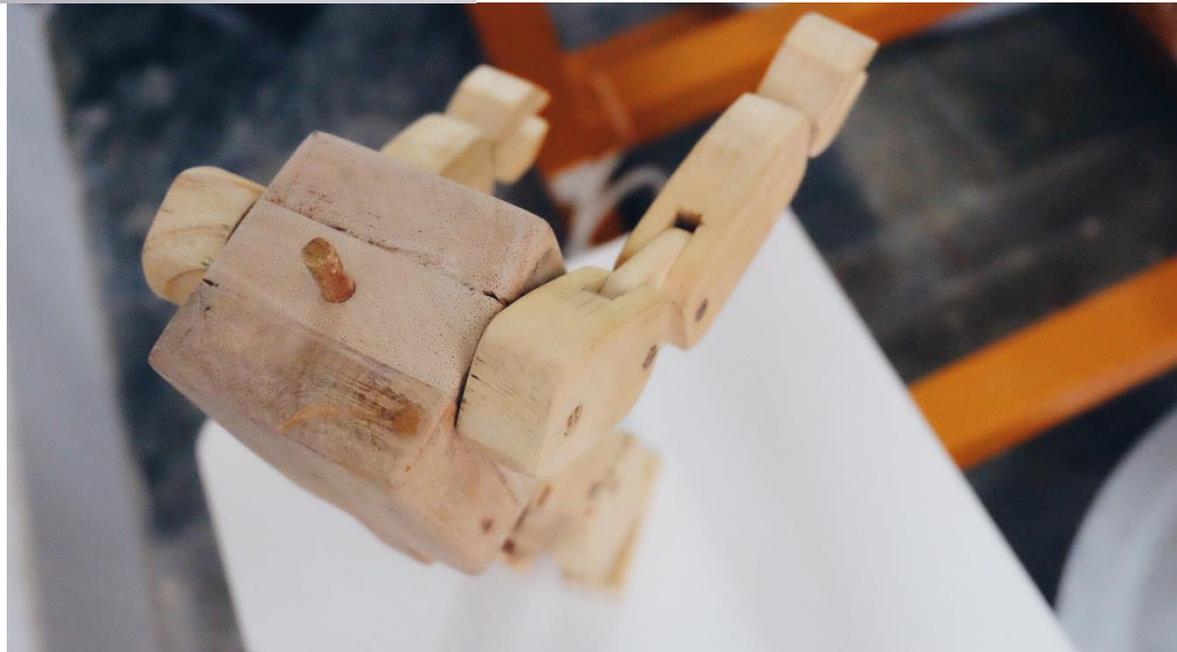


Make hole on the upper side hands and put the dowel through the hands and the body's part. The length of the dowel is 1.5 CM.



Drill the head part for the dowel.

Put the dowel in the body part and the head part. The length of the dowel is 1.5cm





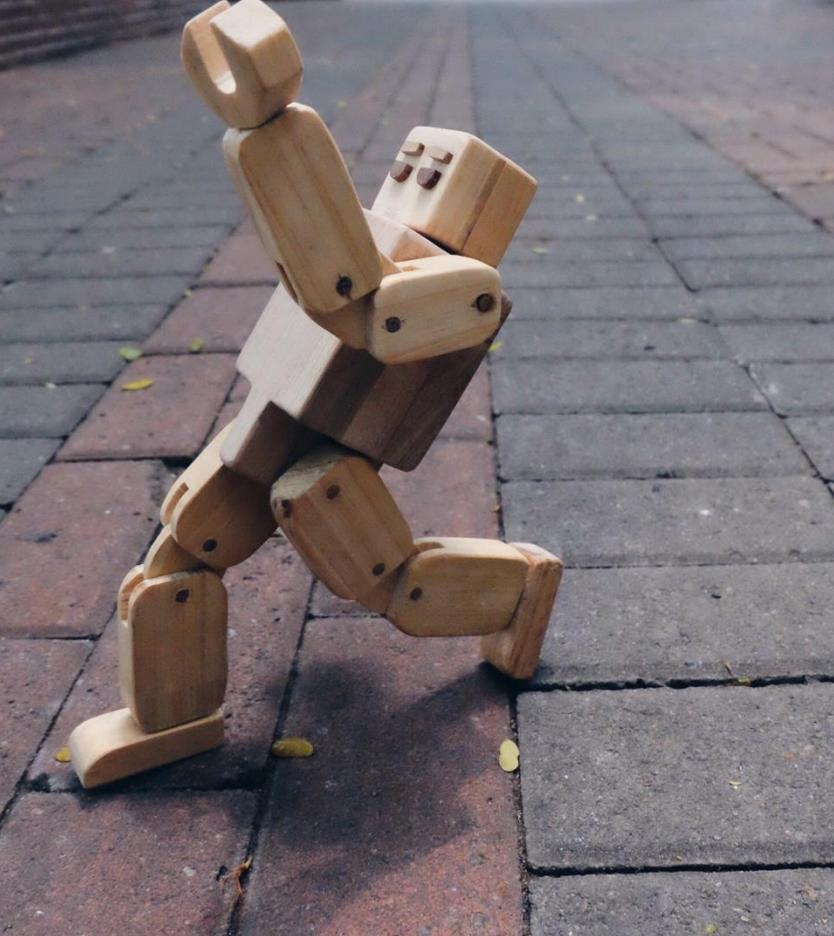
Attach all the part until it become one and smooth the surface with the fine sandpaper.



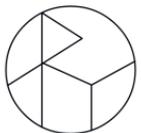
Cut the two dowels (diameter : 1 cm, length 2-3 mm). Use sandpaper for the upper side of the dowel to make the expression for the robot (optional), you can also make eyebrow for your robot. You can make your own ekspression.



Attach both eyes and the eyebrow with PVAc glue however you want it.



Have Fun With
Your Robot



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