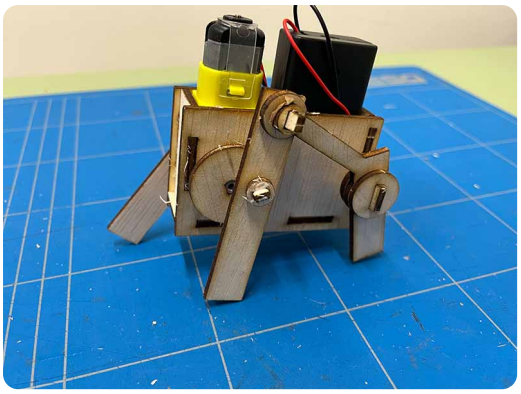


Four legged robot walker

Make a little walking robot with four legs

Scan for the online version

AGE	TIME
9+ yrs	30–45 min

electronics | laser cutting

Lasercut template (template.dxf): scan the QR code

What do you need?

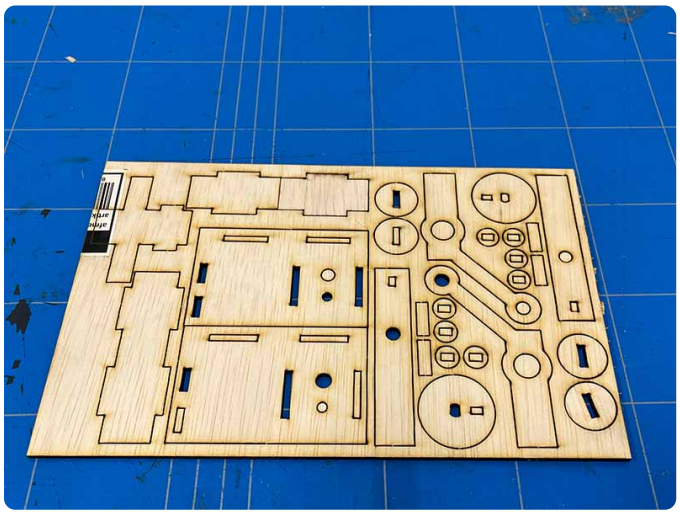
MATERIALS

- [ ] 3 mm plyboard
- [ ] Wooden skewers
- [ ] Wood glue (or hot glue)
- [ ] Geared motor
- [ ] Candle wax
- [ ] 2 AA battery holder with switch
- [ ] 2 AA batteries

TOOLS

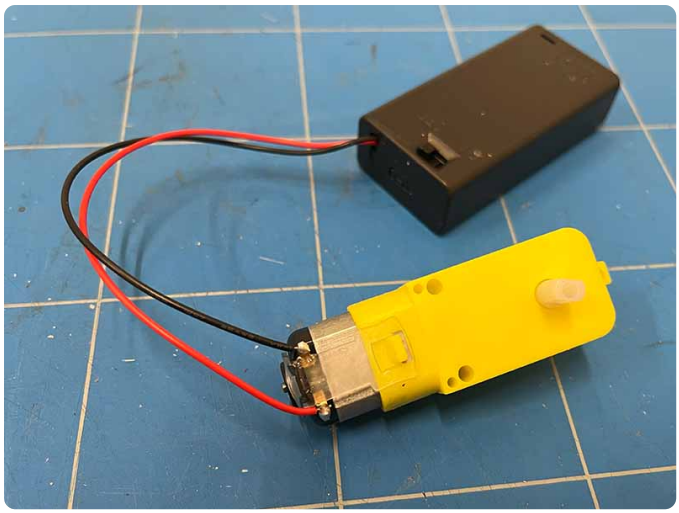
- [ ] Laser-cutter
- [ ] Soldering iron

Steps



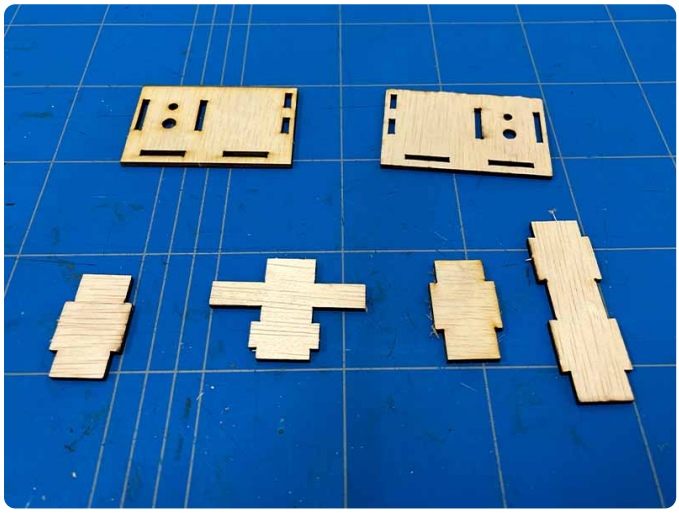
1 Cut the wood

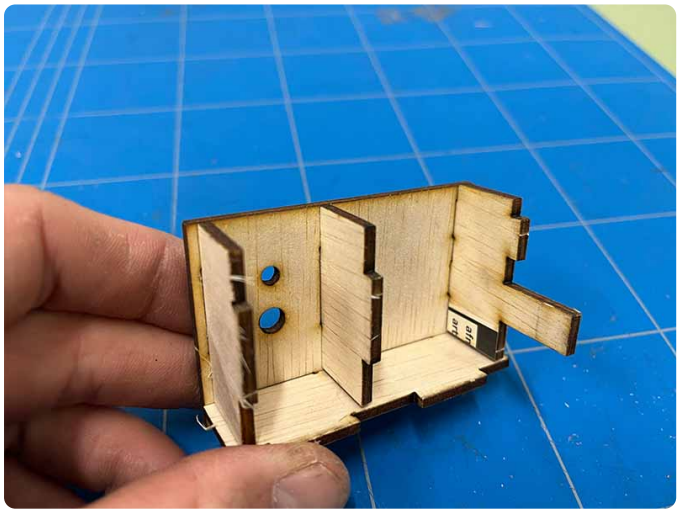
- Use the laser cutter to cut out the wood.



2 Solder the motor

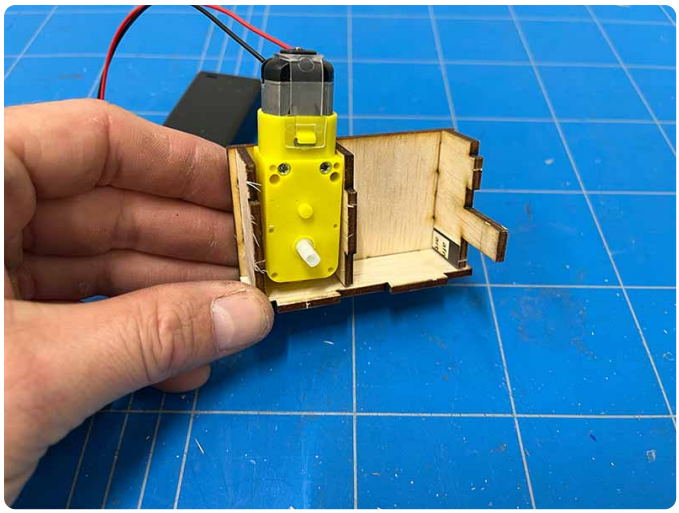
- Solder the leads from the battery holder to the motor.
- Put batteries in the holder and test the motor.

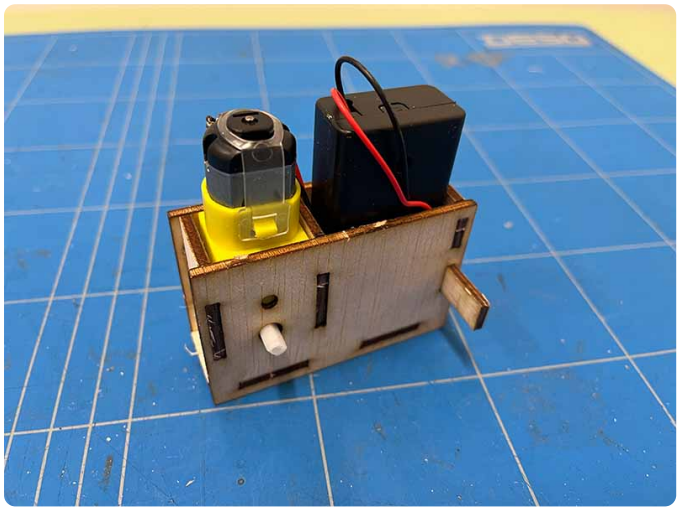




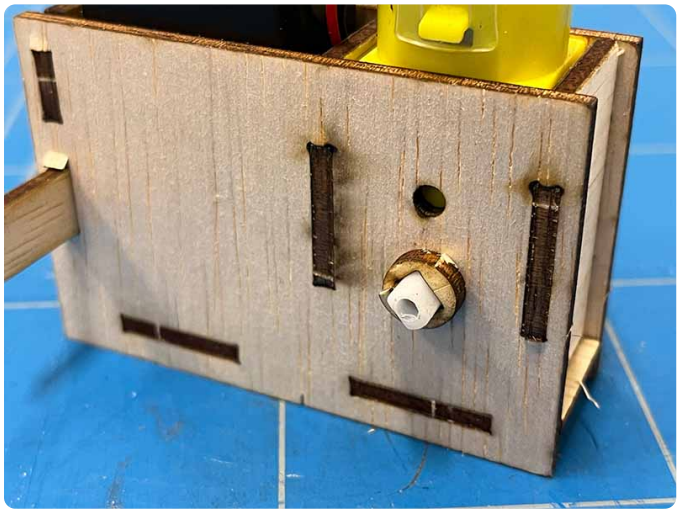
3 Assemble the body

- Assemble the body lof the robot. Make sure the pieces all align at the bottom.
- Place the motor inside the body. Make sure to have the red lead towards the middle of the body.
- Close up the body with the other side plate.





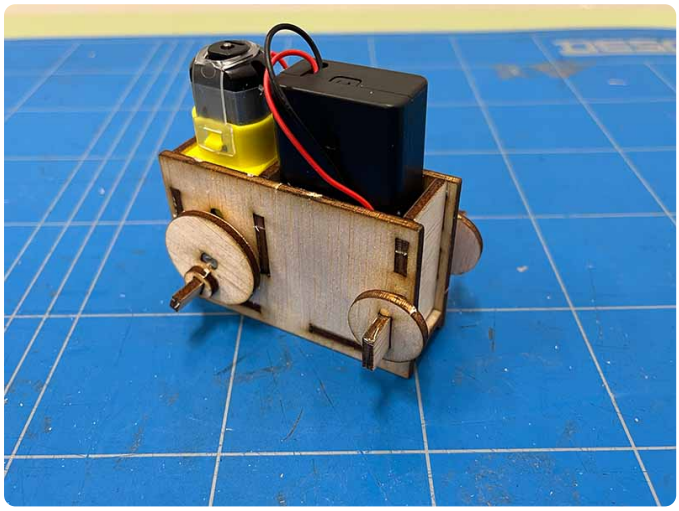
3 Assemble the body — *continued*

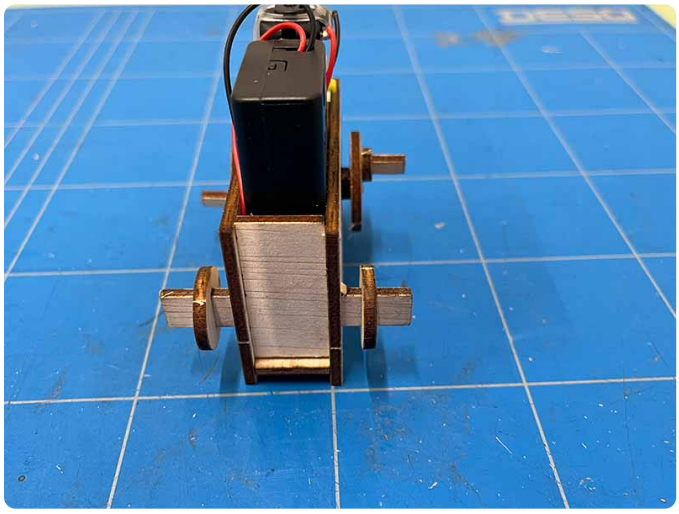


4 Wax and apply spacers

- Apply some wax to the spacers before sliding them over the motor axle on both sides.

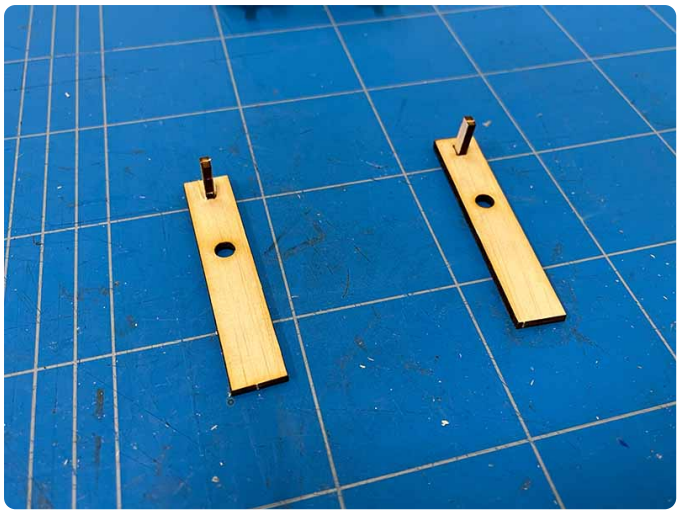


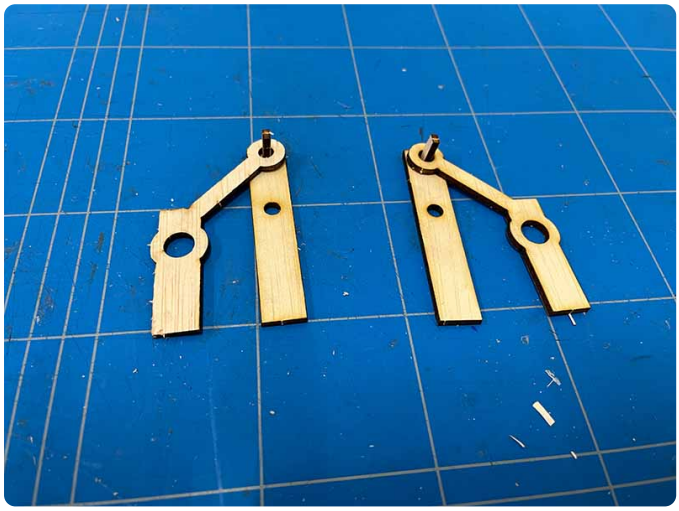


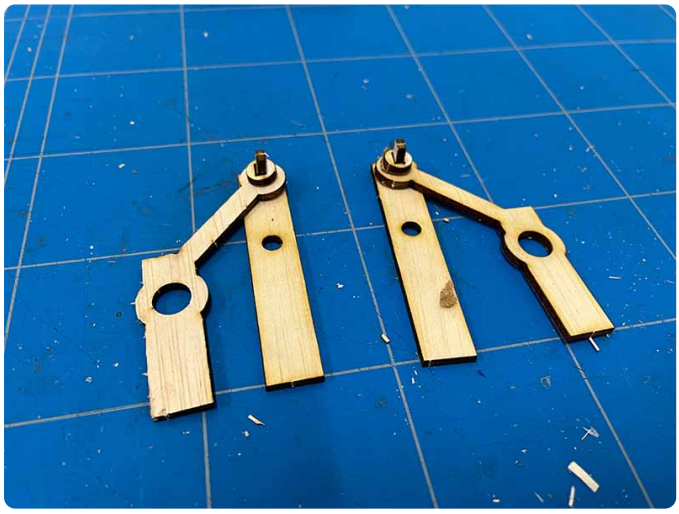


5 The crank

- Assemble the crank as shown on the photo.
- Attach the crank to the motor axle. Make sure that the cranks are offset. Of one is pointing up, the other should be pointing down.
- Add the rear spacers. They should align with the outer spacers on the front.

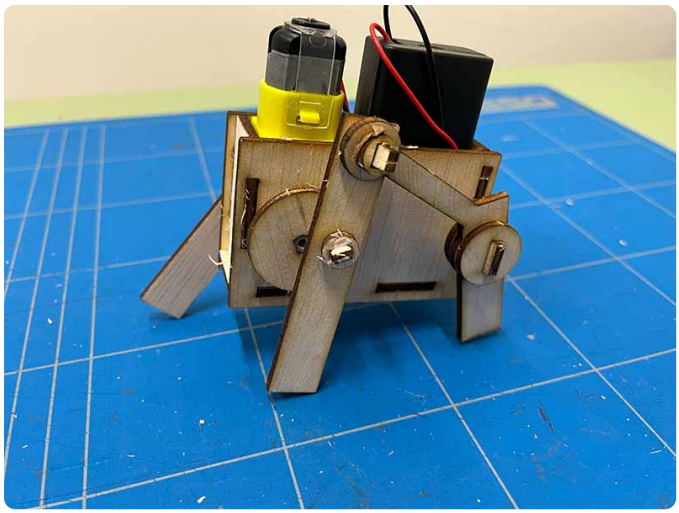






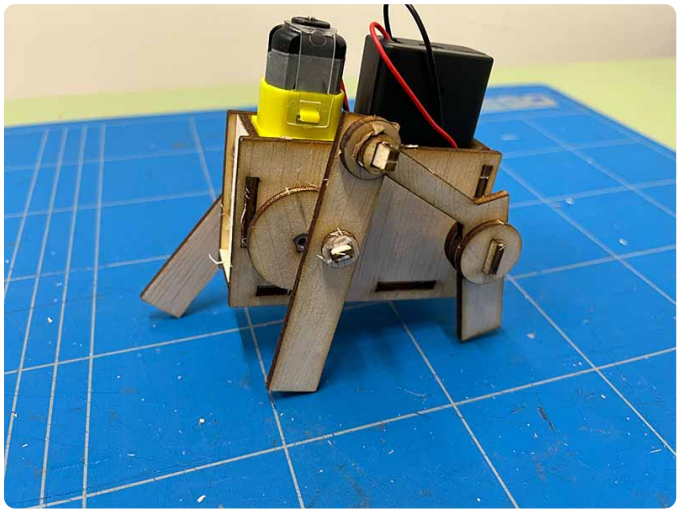
6 Assemble the legs

- Assemble the legs as shown on the photos. Make sure to have one to be the mirror image of the other.



7 Add the legs to the body

- Add the legs to the body and locj it all in place with the wooden spacers.



8 All done!

- Your walker frame is done. You can expand on the design by adding parts to make it look even cooler!