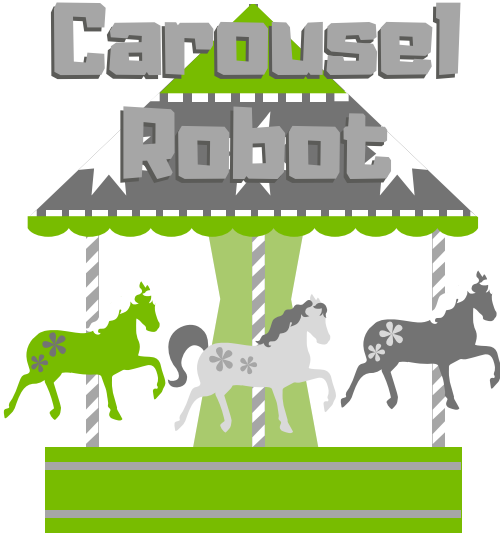


HOW TO BUILD YOUR OWN

# Crazy Carousel Robot



## GATHER YOUR MATERIALS

Before getting started, make sure you have all your robot parts:

- 3 x double-stick foam
- 1 x 9g DC motor (blue)
- 1 x motor propeller
- 1 x mini cup
- 1 x paper bowl
- 1 x paper plate
- 1 x paper rectangle
- 1 x toilet paper roll
- 3 x plastic animal
- 3 x pipe cleaner
- 1 x AA battery
- 1 x AA battery holder

*You will also need:*

- scissors
- markers
- 3 pieces of tape

## ASSEMBLE THE MOTOR

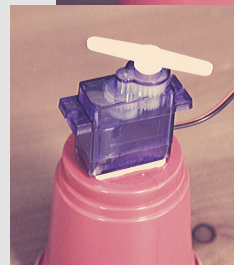
### 1

Turn the mini cup upside down. Use 1 piece of double-stick foam to attach the motor to the cup.



### 2

Attach the motor propeller to the top of the motor.



## ASSEMBLE THE ROOF

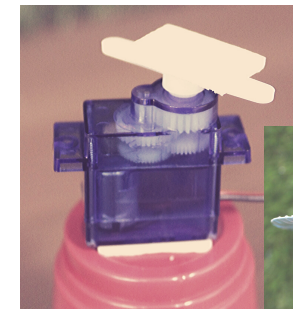
### 3

Turn the paper bowl upside down and decorate it with markers. This will be the roof of your carousel.



### 4

Put 1 piece of double-stick foam on top of the motor propeller. Attach the bowl to the double-stick foam on the motor propeller.



## ASSEMBLE THE POLE & BOTTOM

5

Decorate the paper rectangle with markers. Wrap the paper around the toilet paper roll. Tape down your paper to the roll. This will be your pole.



6

Decorate the top of the plate. This will be the bottom of your carousel.



7

Cut 1/2 inch slits around 1 end of the toilet paper roll to create tabs. Bend the tabs. Place the pole in the center of your plate and tape down the tabs.



## POSITION YOUR ANIMALS

8

Stack the mini cup (with bowl) on top of the toilet paper roll.



9

Put 1 pipe cleaner through a hole in your bowl. Wrap one end of the pipe cleaner around the hole so it stays put.

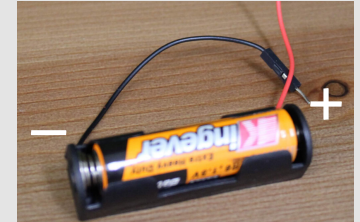


10

Wrap the other end of the pipe cleaner around a plastic animal.

11

Match the positive (+) end of the battery with the red wire of the battery holder. Put the battery inside the battery holder.



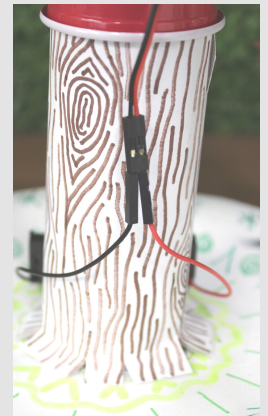
12

Use 1 piece of double-stick foam to attach the battery holder to the plate.



13

Put both wires of the battery holder into the 2 socket holes of the motor's wires. To turn off your robot, just unplug either wire.



*If you enjoyed making this robot, visit [barnabasrobotics.com](http://barnabasrobotics.com) to check out more DIY projects or sign up for a class or camp.*