

# Curio Rover Bot Building Instruction

Step 1 : Find any everyday objects like an empty cereal box



Step 2 : Cut out

- Three 7x19cm rectangular box (used for the face and the back of the rover)
- Two additional circle of 2cm diameter

Step 3 : Hot glue

- Two rectangular boxes together
- Two circle on the rectangular boxes



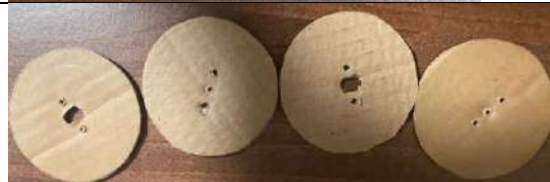
Step 4 : Cut out

- A 1.5x5cm rectangle shape on from the box in Step 3
- A 1.5x2.5cm rectangle shape on the other cardboard



Step 5 : Cut out

- 4 circles with a 6cm diameter
- Using 1 of the circle, insert three holes (for bolts & nuts and screw)
- Use 1 of the circle insert 2 holes (for bolts & nuts) and another bigger hole for the wheel



Step 6 :

- Assemble one of the wheel
- Replicate Step 5 for the other side of the wheel



Step 7 :

- Cut out a 19x19cm square cardboard (for the base of the rover)



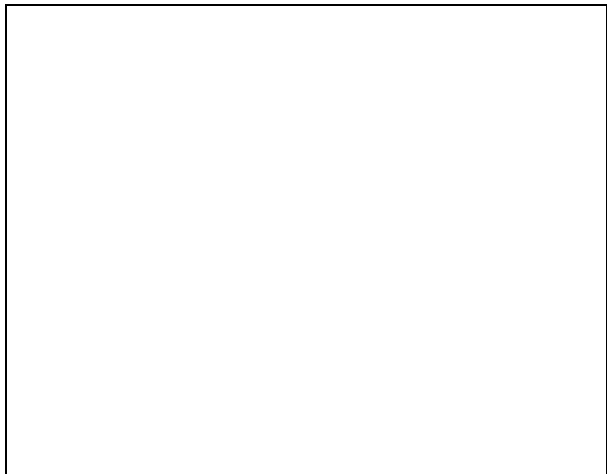
Step 8 : Cut out

- Two 2x6.5cm rectangular shape cardboard
- Two 2x2.7cm rectangular shape cardboard

Step 9 : Hot glue approximately 4.5cm down from the base

- The four pieces of cardboard together



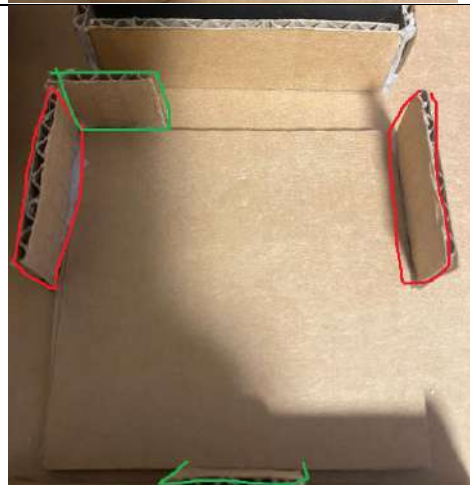


Step 10 : Cut out

- A 7x7cm square shape (mounting \*smartibot board)
- Two 2x3.5cm rectangular shape cardboard
- Two 2x2cm square shape cardboard

Step 11 : Hot glue

- Two rectangular shape cardboard on the top corners of the 7x7 board [Highlighted in Red]
- One of the 2x2 square shape cardboard on the top left of the board [Highlighted in Green]
- The final 2x2 square shape at the middle of the board [Highlighted in Green]
- The finish product onto the base of the rover approximately 1.5cm downwards the battery holder



\*Smartibot microcontroller is used for simulation purposes, actual product would be using the microcontroller the Curio is currently using

Step 12 : Cut out

- Two 2x9cm rectangular shape cardboard
- Two 2x2cm square shape cardboard

Step 13 : Hot Glue

- The parts from step 12 onto the board



#### Step 14 : Cut out

- The cereal box into 19x20.5cm in length
- A 4.5x8cm rectangular shape 8cm from the top of the cereal box



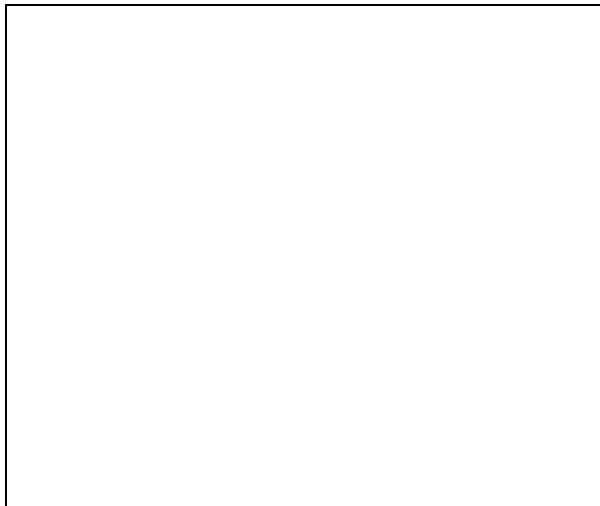
#### Step 15 : Cut out

- Sixteen 2x8cm rectangular shape cardboard
- Fifty-Four 2cm radius quadrants

#### Step 16 : Hot glue

- Step 15 together
- The finished product onto the cereal box





Step 17 :

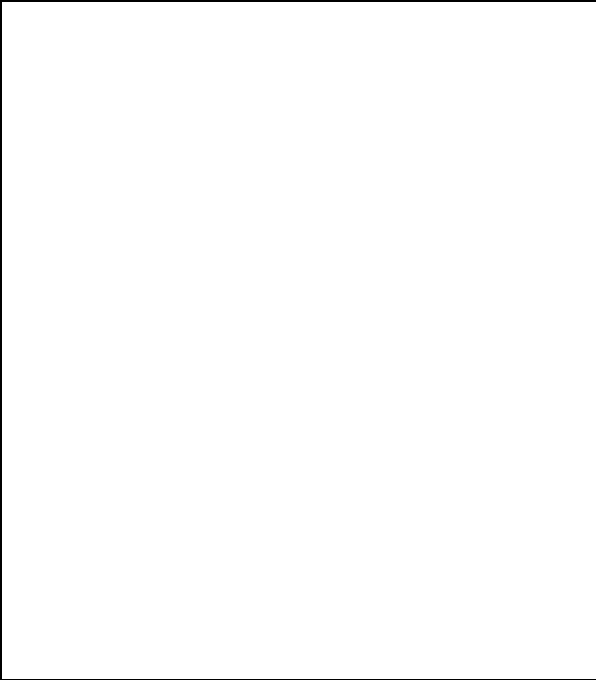
- Cut out 4 circles with a 10cm diameter
- Stack two circles and put a bolt and nut through it



Step 18 :

- Insert two holes on the corner of the cereal box to insert the motor.
- Do it for both sides of the box.





Step 19 : Assemble everything together

