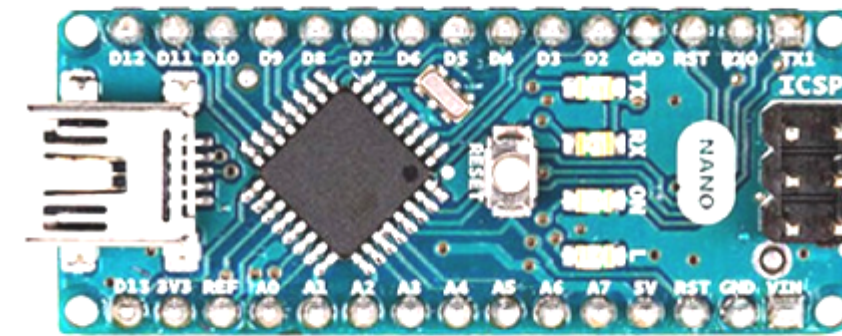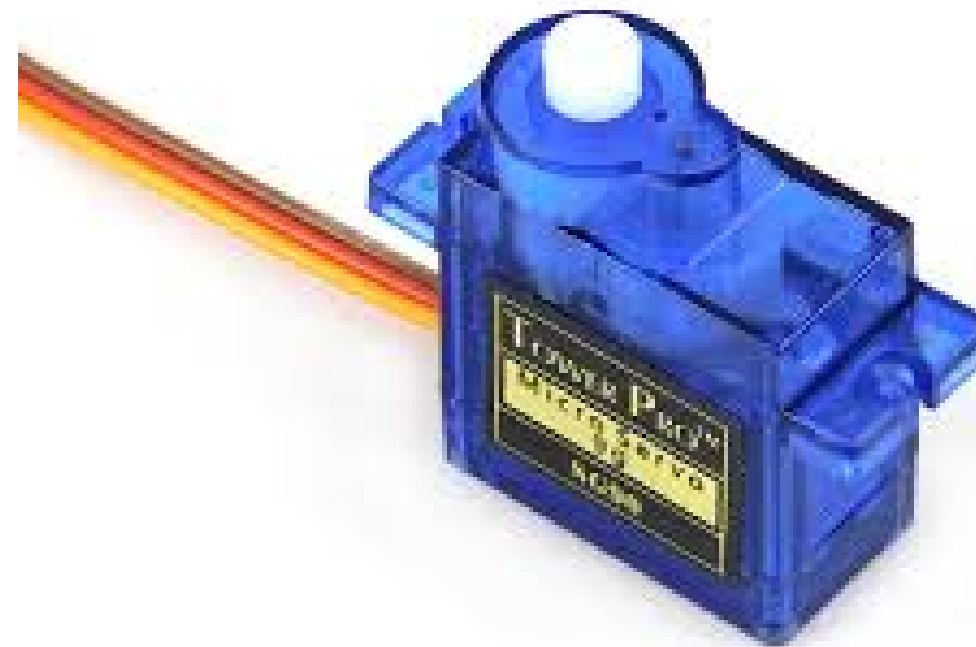# R BOT

makebot R BOT

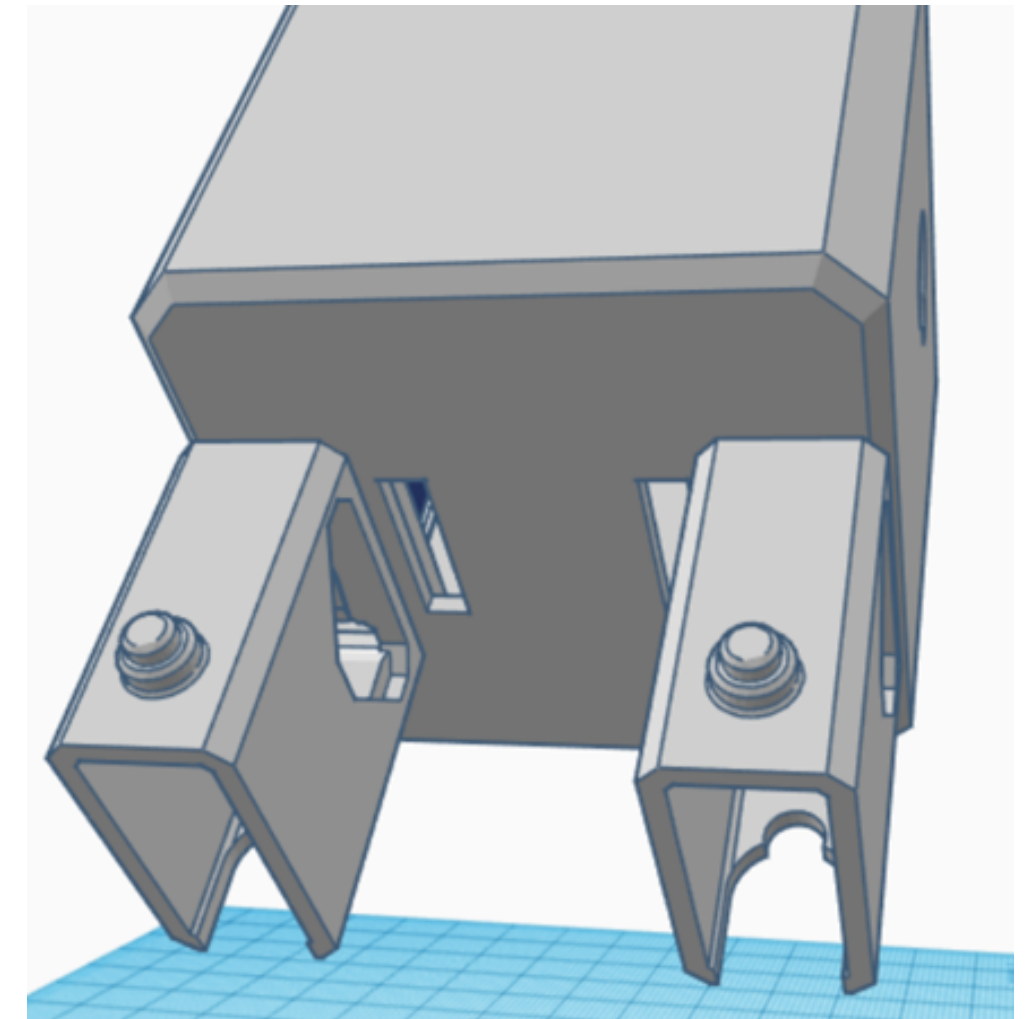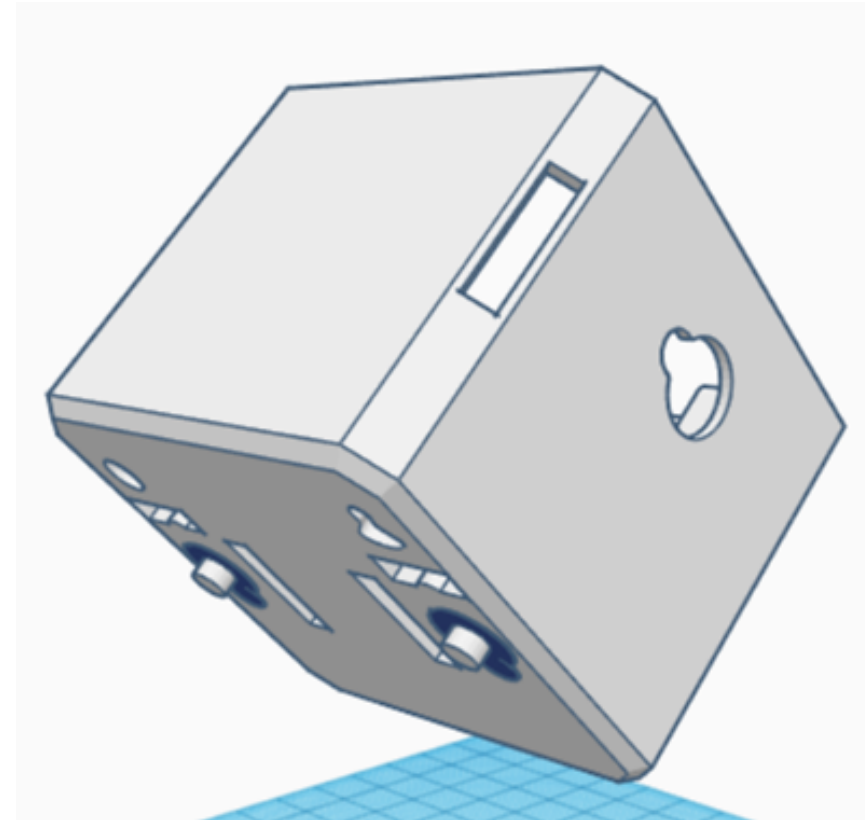# makebot

R BOT

1 Step

Ready

arduino nano, nano shield, R BOT MINI
3Dprint, sg90(or mg90s)×10, HC-06,
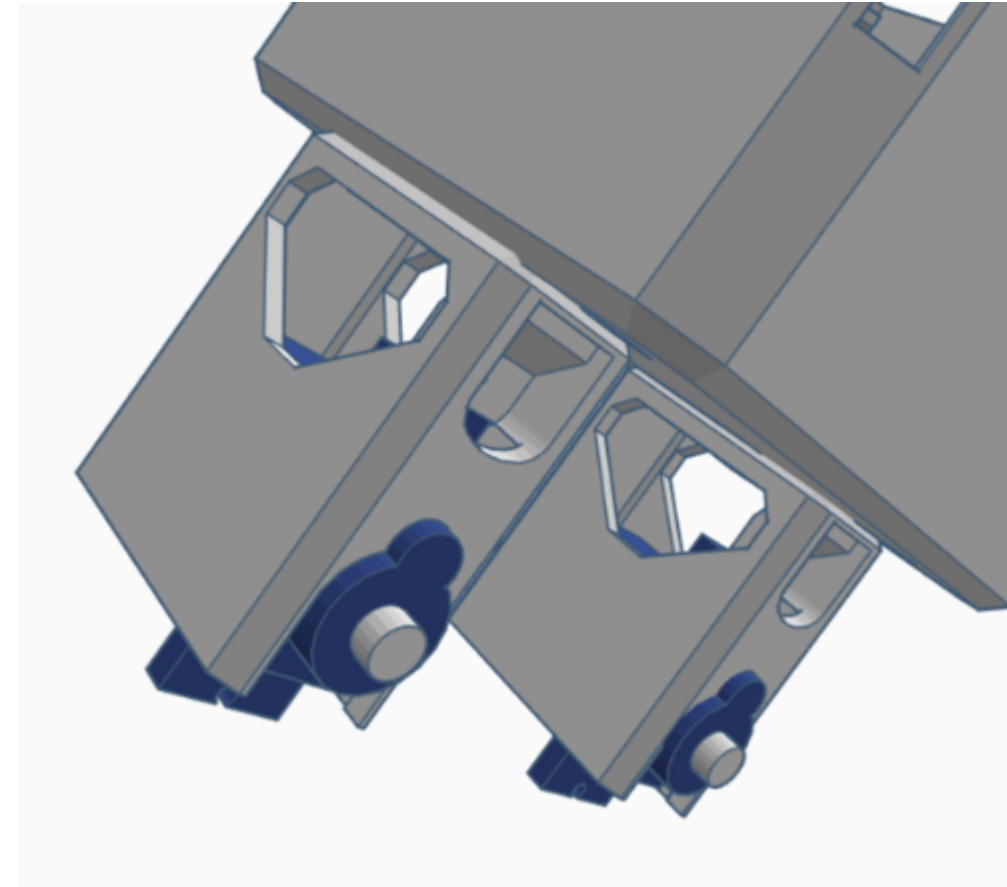HC-SR04, cables, battery

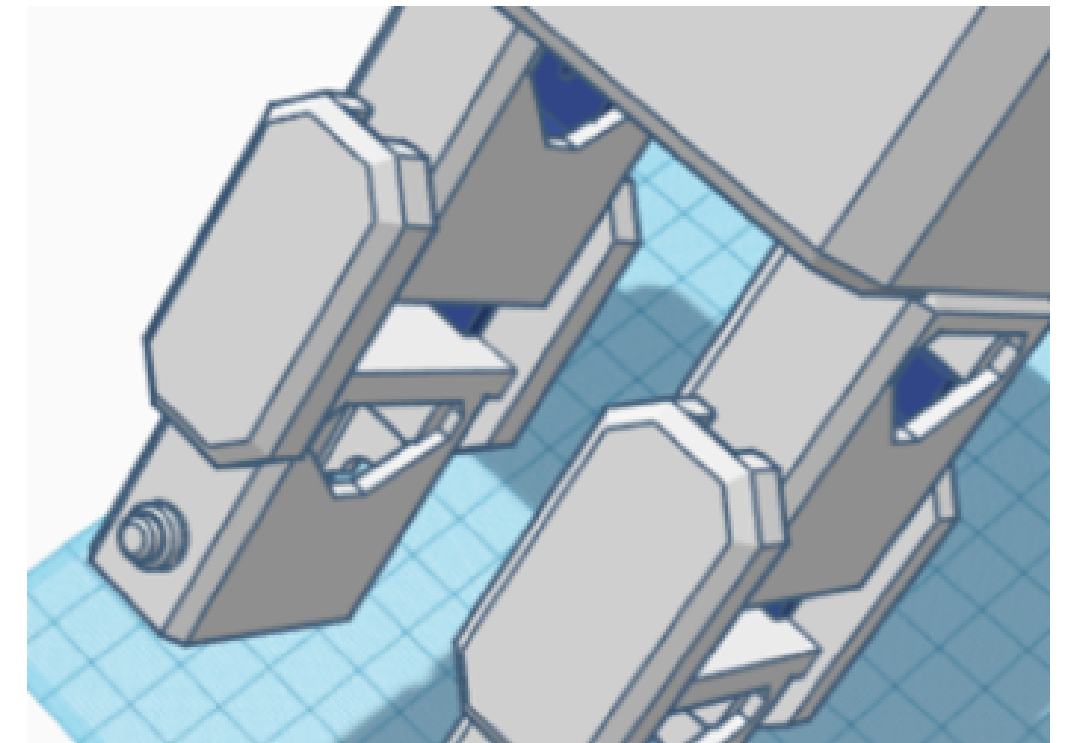*Set all the servo's angle to 90'

2 Step

input servos in body's leg hole
and attach to leg1

makebot
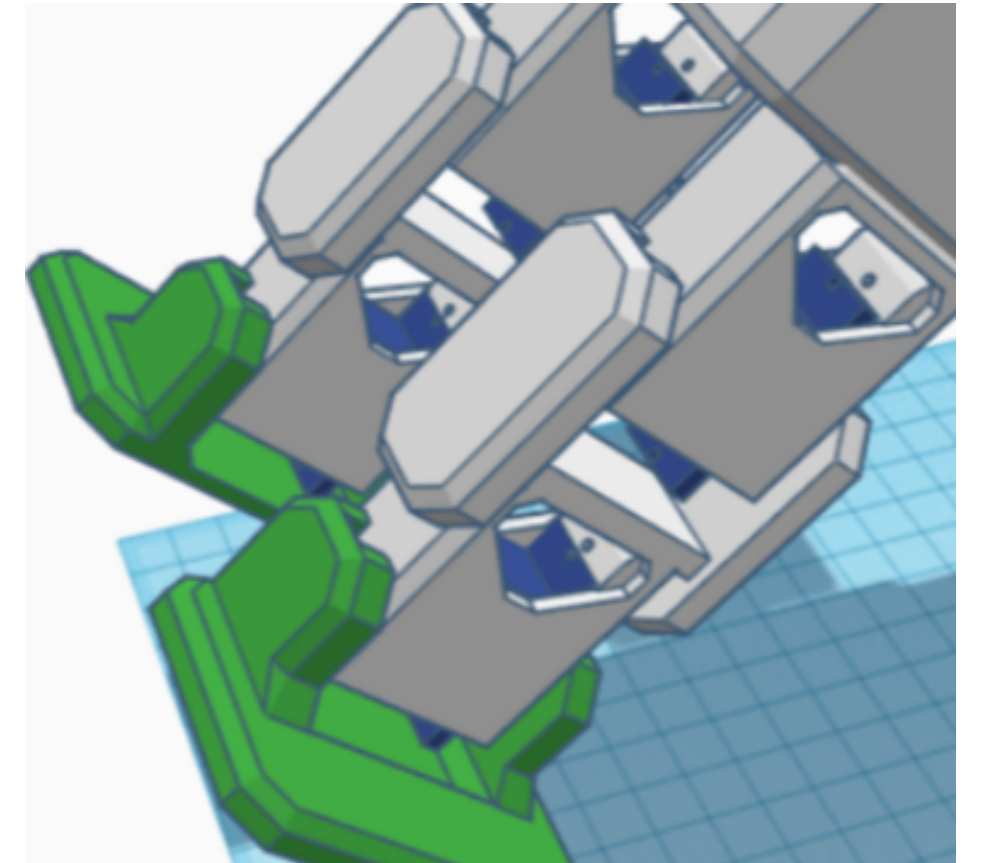# R BOT

3 Step

insert servos in the leg1 and
attach to leg2

makebot
R BOT

4 Step

insert servos in the leg2 and attach to foot

makebot
R BOT
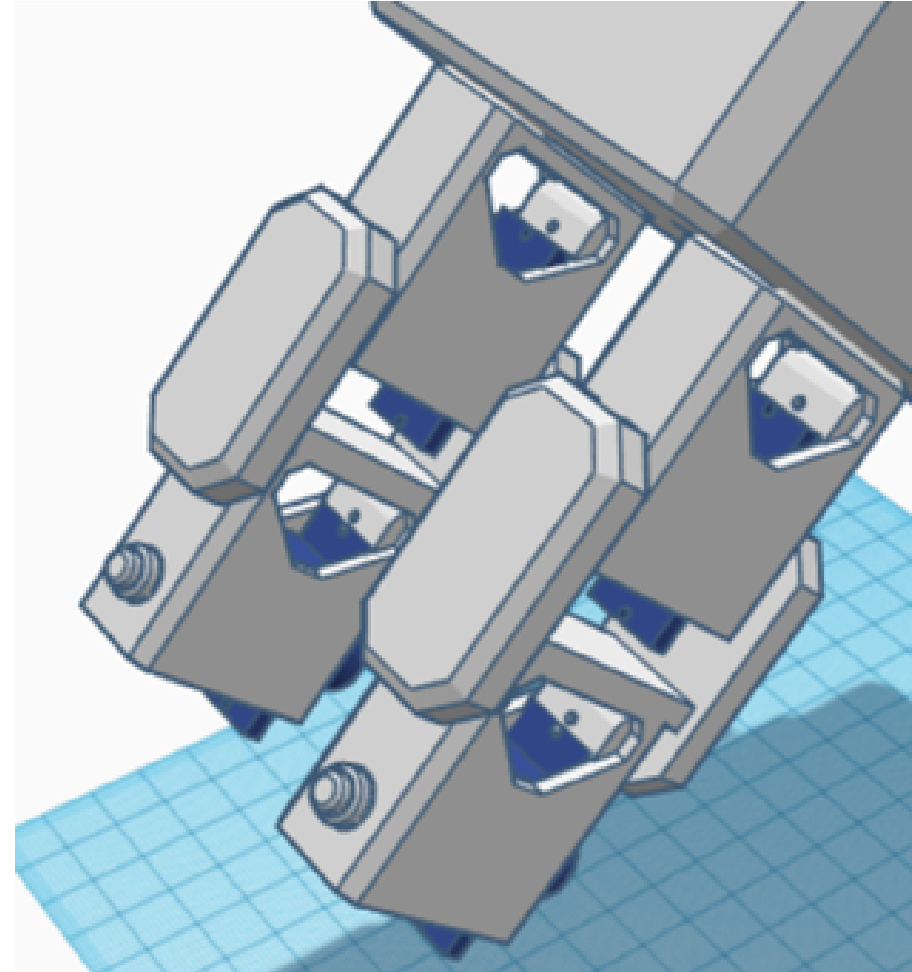
5 Step

input servos in arm hole

makebot
R BOT
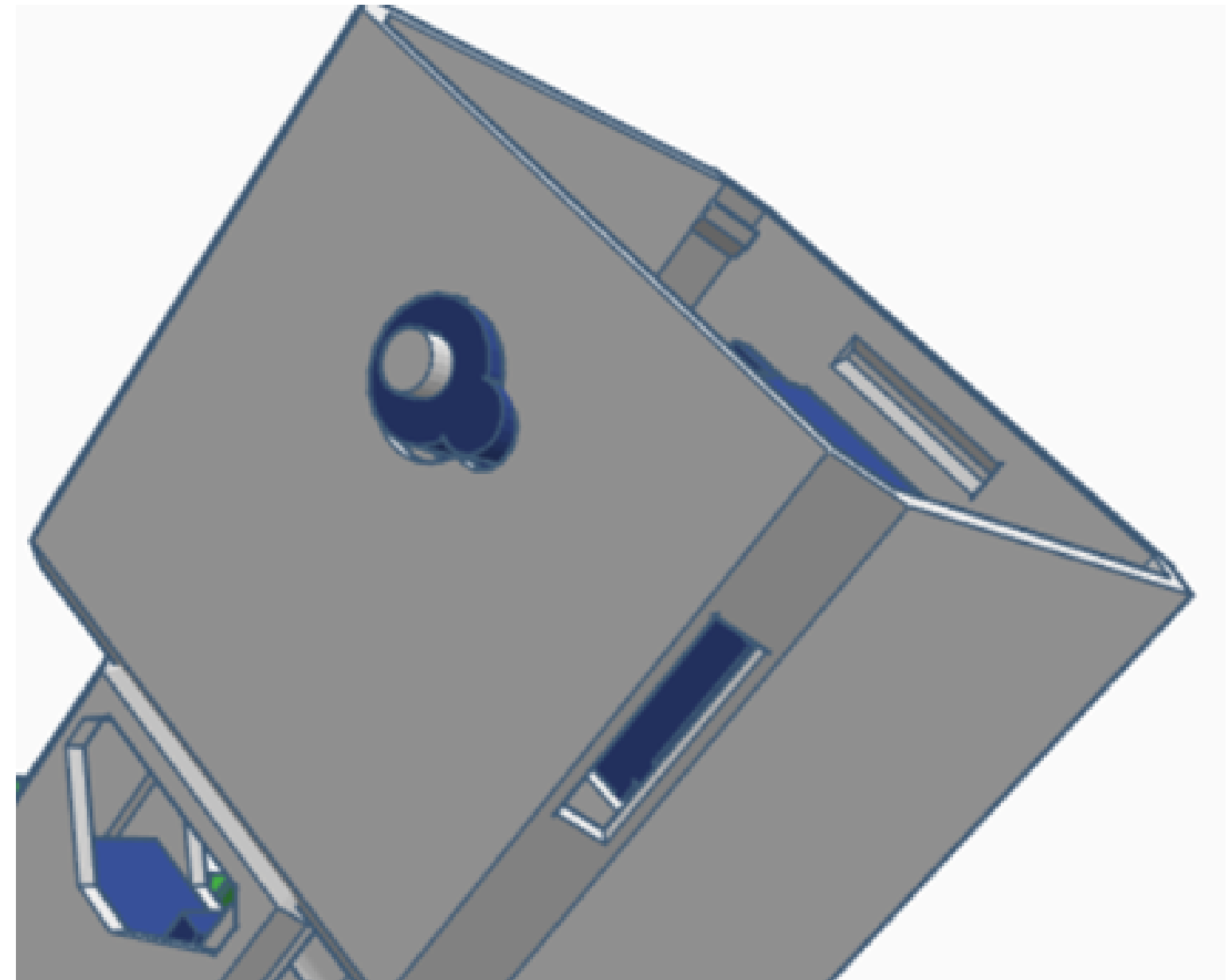
6 Step

put hand in arm2

makebot

R BOT
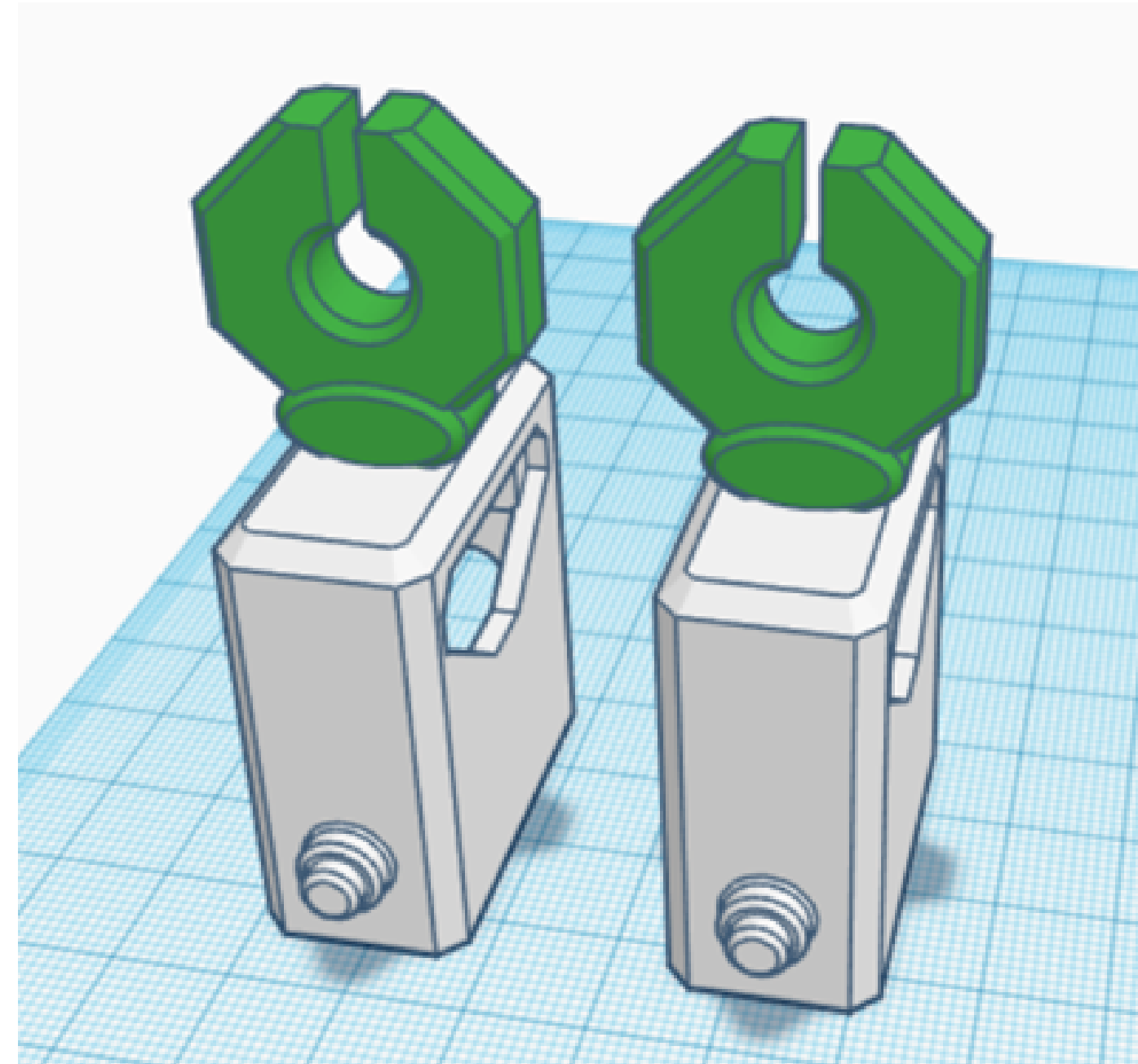
7 Step

attach the servos in arm hole to arm1

makebot

R BOT
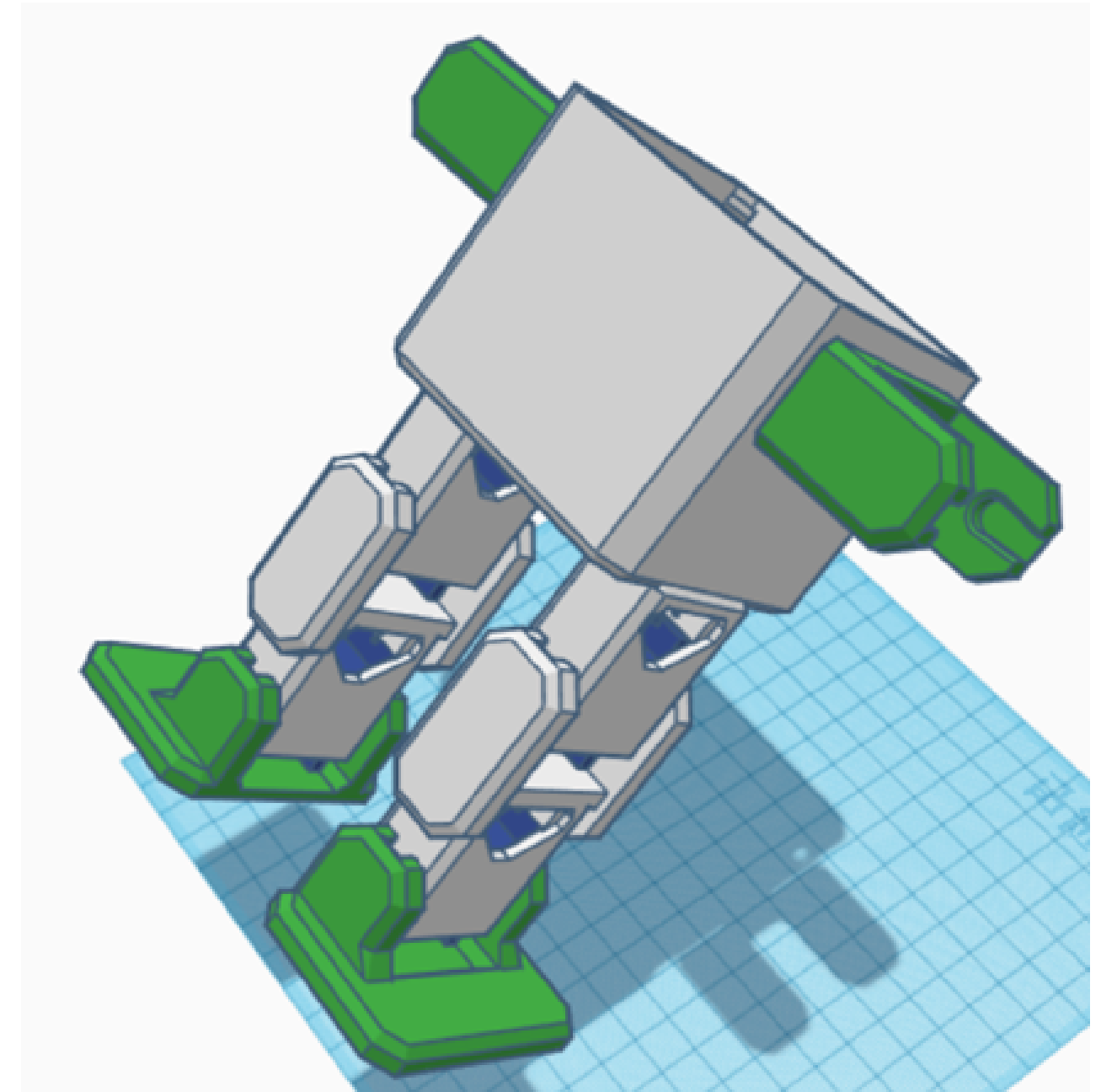
8 Step

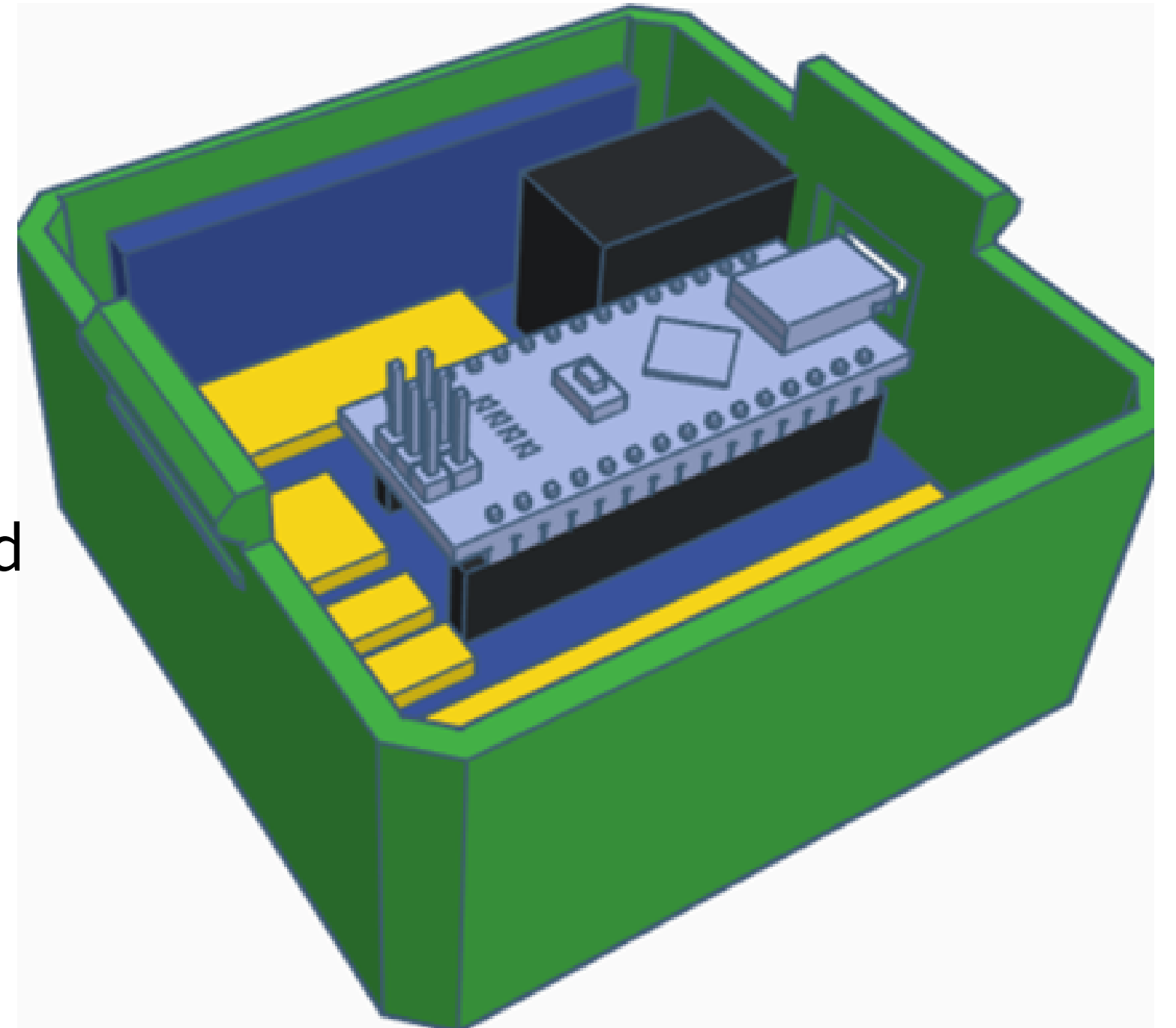input servos in arm2 and attach to arm1

makebot
R BOT
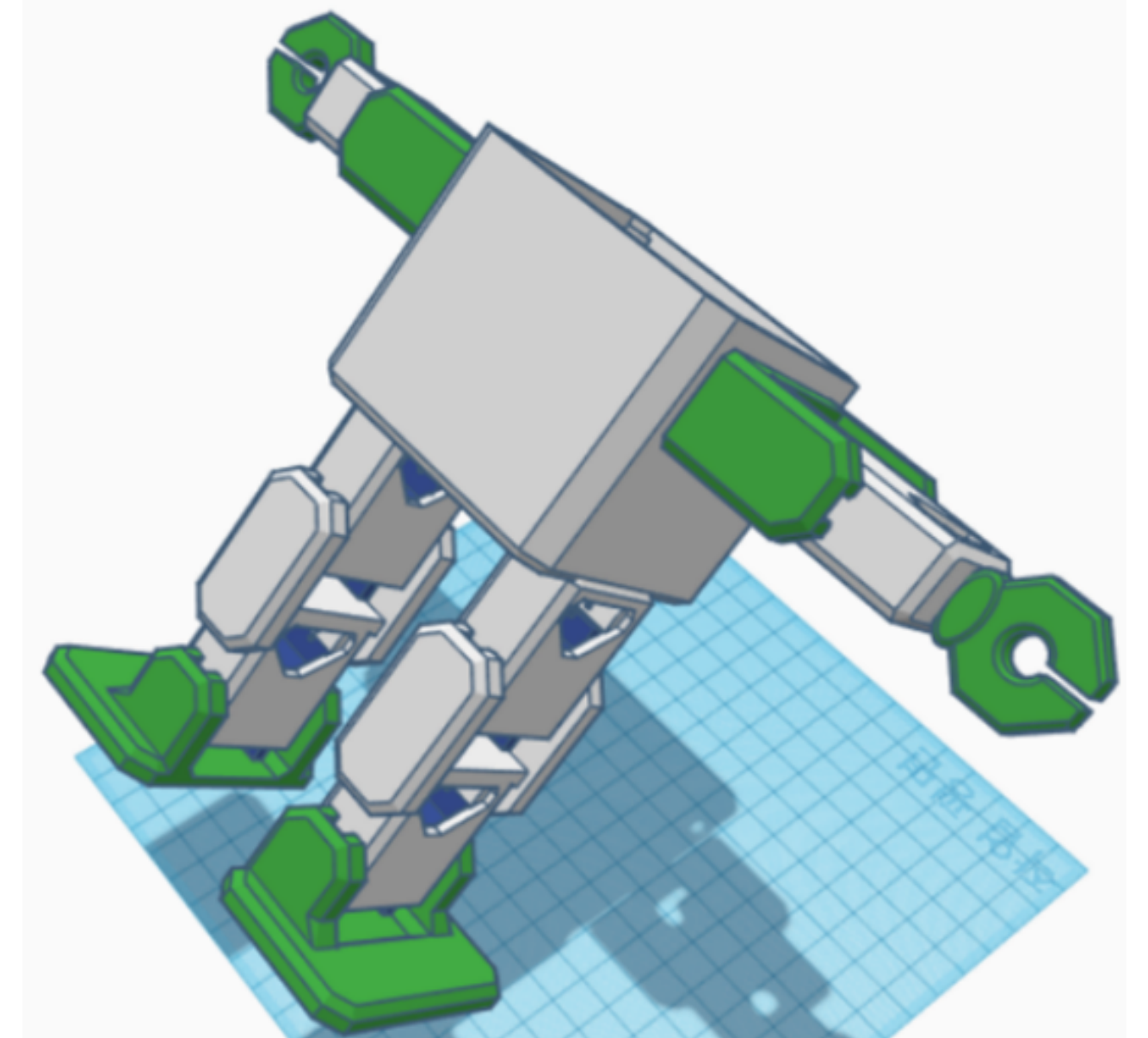
9 Step

input HC-SP04 (distance sensor) in head's sensor hole

makebot

R BOT
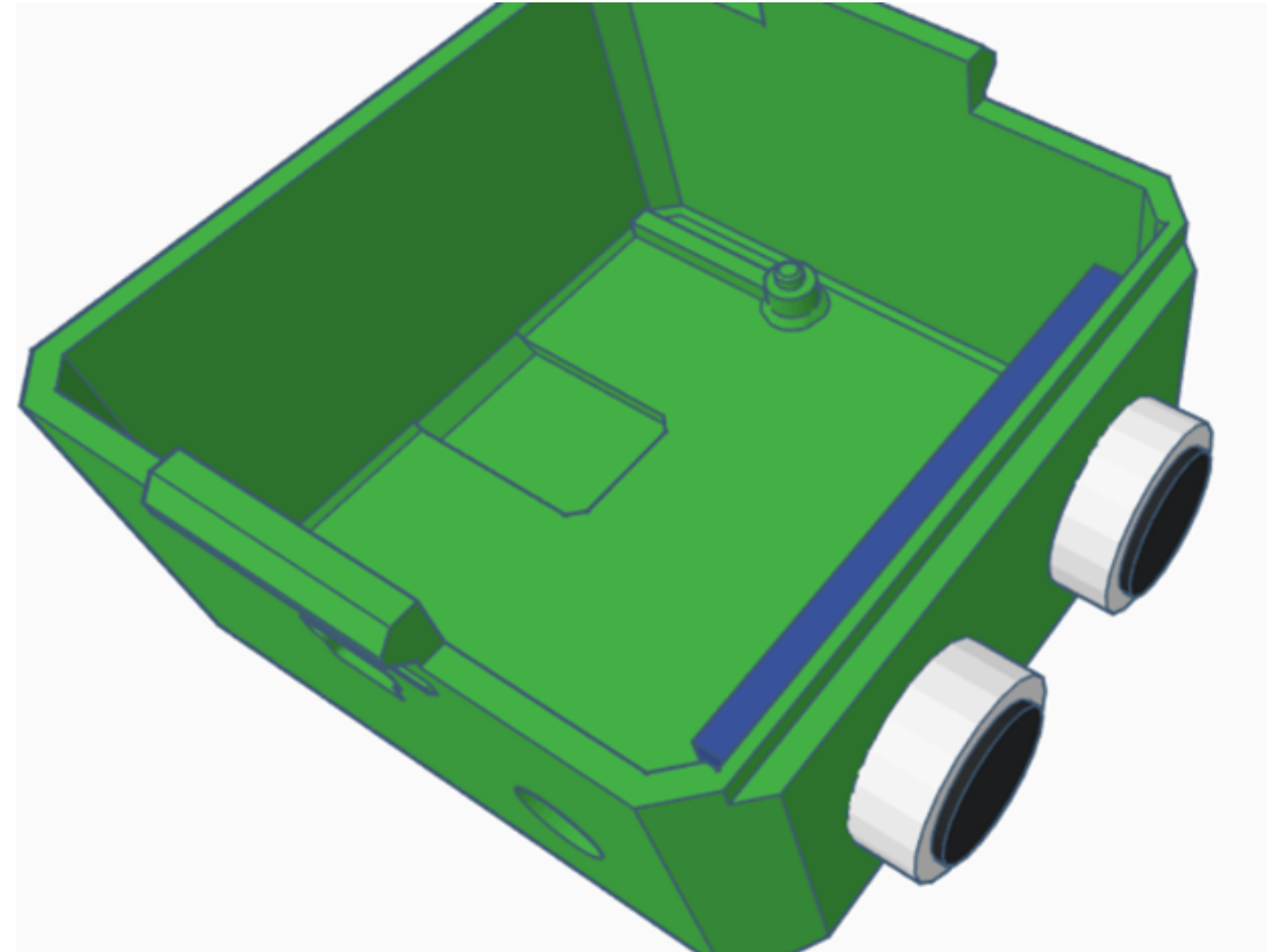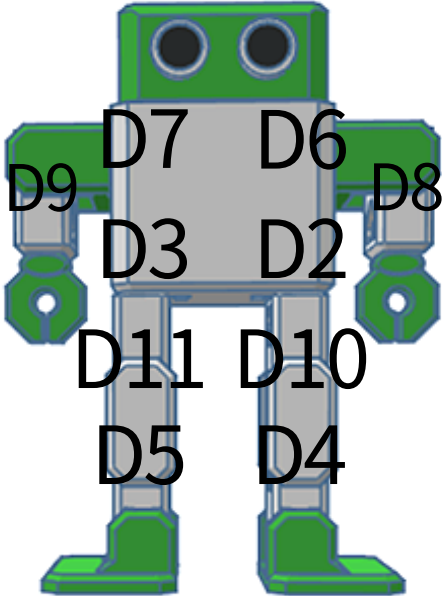
10 Step

input arduino nano in to shield

and put it in head

makebot

R BOT

11 Step

[pinmap]

servo	bluetooth	distance sensor	buzzer
sg90 or mg90s	HC-06	HC-SR04	piezo buzzer
D7 D6 D9 D8 D3 D2 D11 D10 D5 D4	tx - rx .... rx - tx	echo - A1 .... trig - A0	sig - D13 .... + - 5v .... - - GND

Must turn off the Bluetooth power when uploading a sketch.

makebot
R BOT

12 Step

put head in body

makebot
R BOT

13 Step

finish!!

makebot
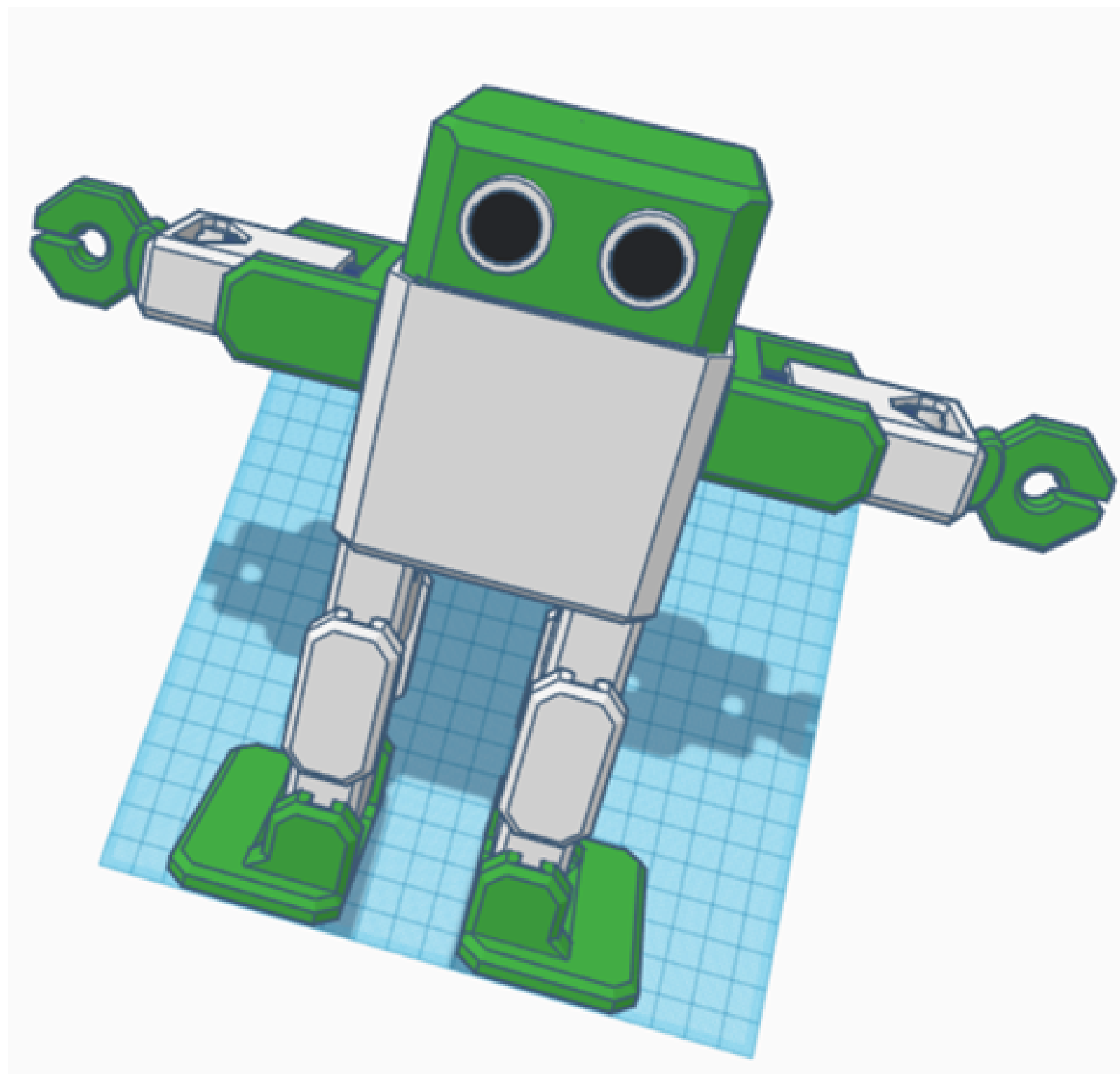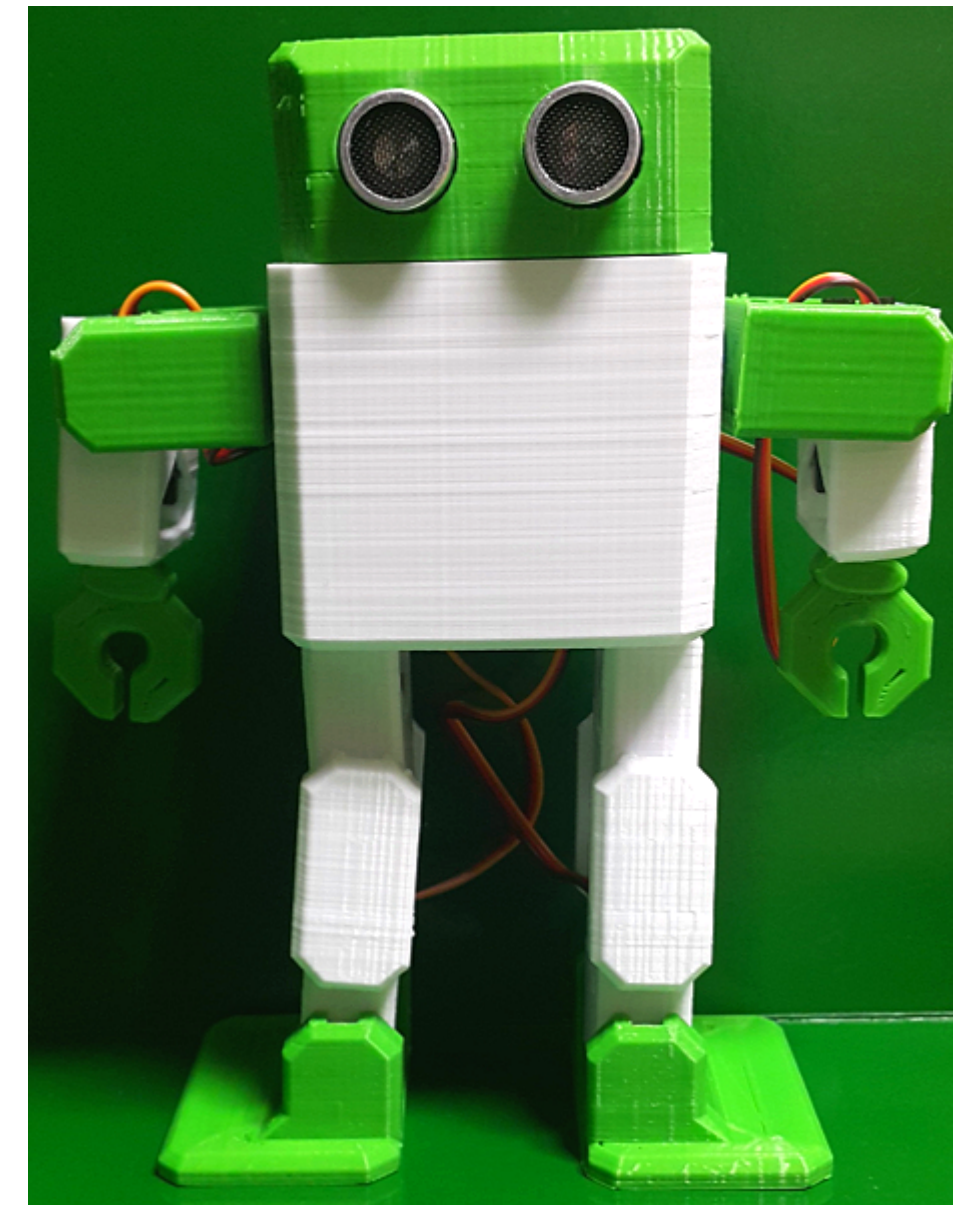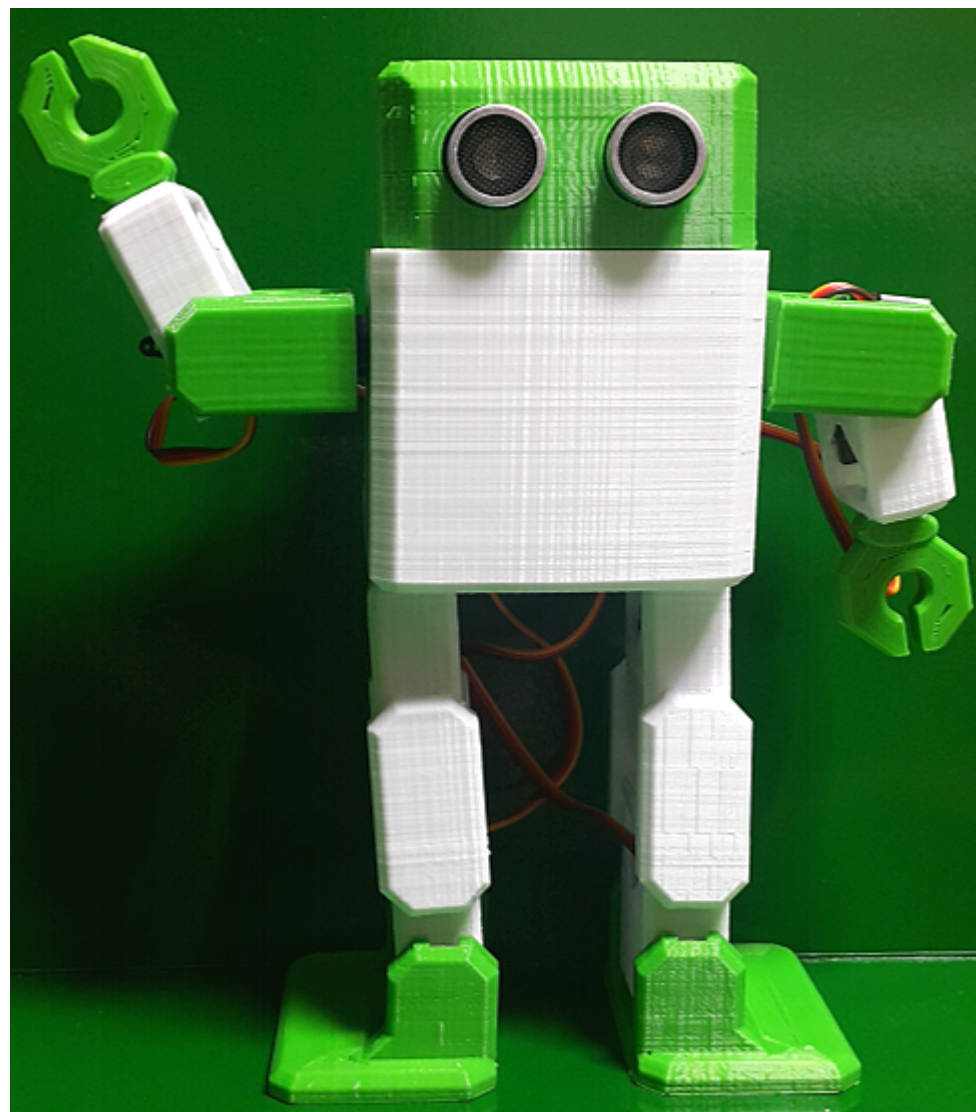
R BOT

R BOT function
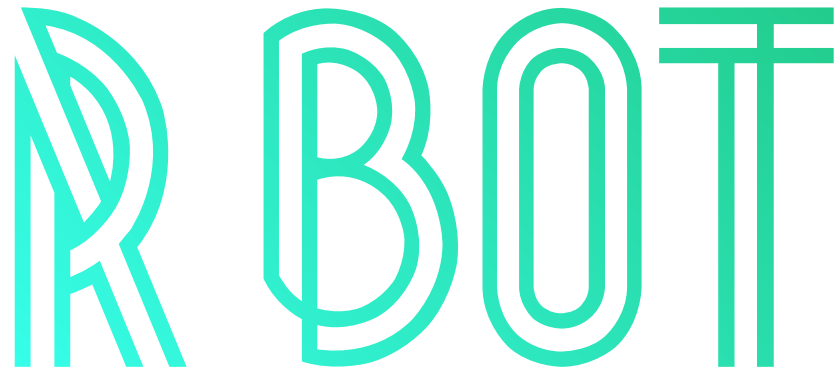
#include <Rbot.h> //include R BOT library
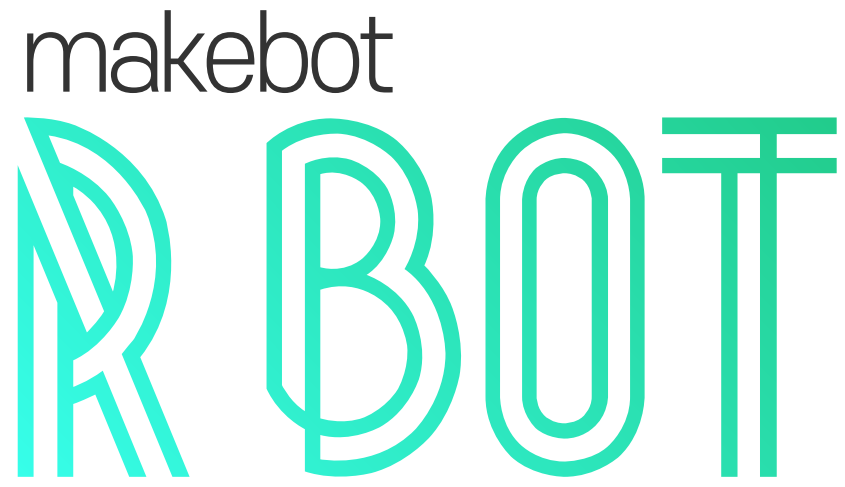
Rbot Rbot; //make R BOT object   Rbot.home(); //R BOT home

Rbot.ready(); //R BOT initialization   Rbot.distance() //get distance

Rbot.move(); //move R BOT (parameter : 1(forward), 2(backward), 3(turn left), 4(turn right))

Rbot.motion(); //R BOT motion (parameter : 1(hello1), 2(hello2), 3(jump), 4(stand up), 5(I can fly), 6(penguin), 7(yay), 8(sit down), 9(yes), 10(no), 11(dance), 12(handshake))

Rbot.sound(); //R BOT sound (parameter : 1(happy), 2(sad), 3(surprise), 4(angry), 5(sleepy), 6(joy))

makebot
R BOT

Files and links

makebot homepage(EN) : http://makebot.mystrikingly.com

makebot homepage(KO) : https://makebot.modoo.at

R BOT github : https://github.com/makebot-lab/rbot

makebot official github : https://github.com/makebot-lab

makebot develop github : https://github.com/makebot-maker