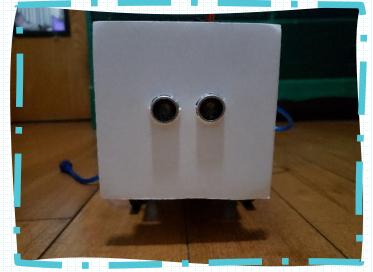
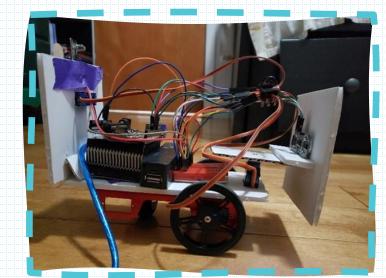
# 

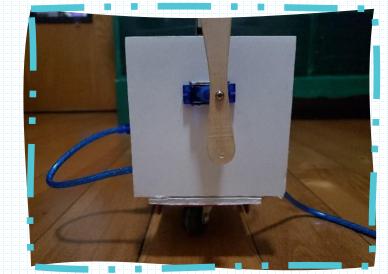
# A remote-controlled robot that can perform tricks like a dog





Front

Side





Back Remote control

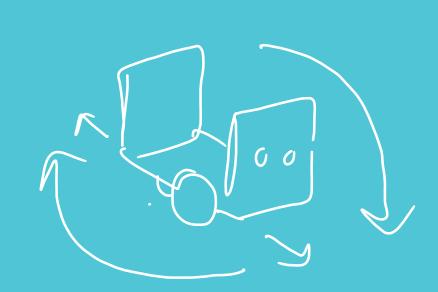
#### Features:

- A base furnished with white foam core
- Two wheels connected to a continuous servo and a caster wheel at the back
- A tail-like popsicle stick tied to a standard servo
- An ultrasonic sensor acting as the dog's eyes
- A standard servo attached to the head
- An IR receiver + remote

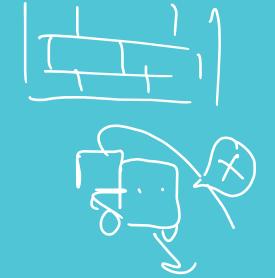
Commands are coded into some of the remote's buttons.

When one is pressed, the robot will respond!

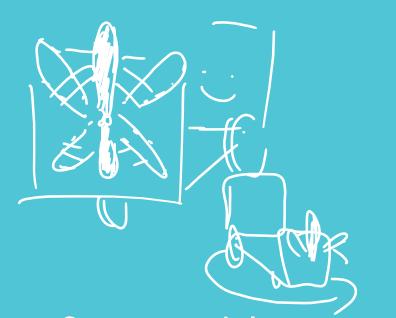
### **Tricks**







Avoiding obstacles

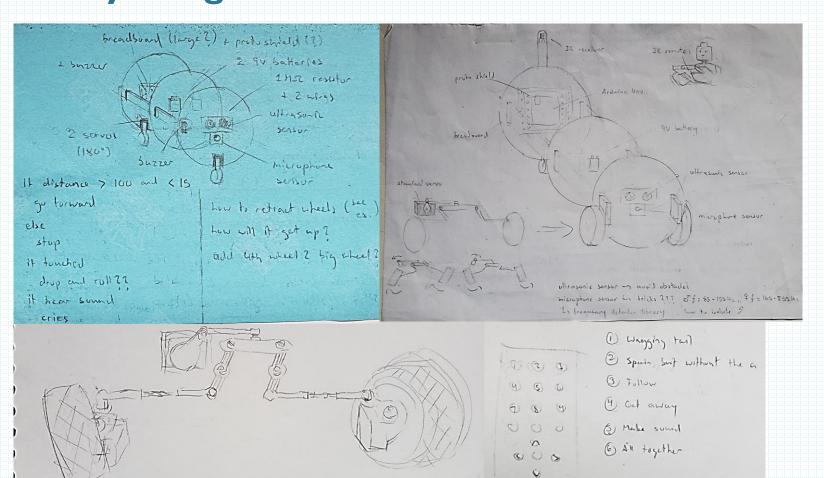


Spinning while wagging tail



Human detected

## Early design



- Its body and head were circular
- More actuators were planned such as a microphone sensor, a capacitative sensor, and a piezo buzzer
- More commands were planned. For example, the robot would react to sound and emit a cry
- An idea on how to connect the robot's head to the wheels was drawn. The goal was to make the head and the wheels change direction at the same time.