

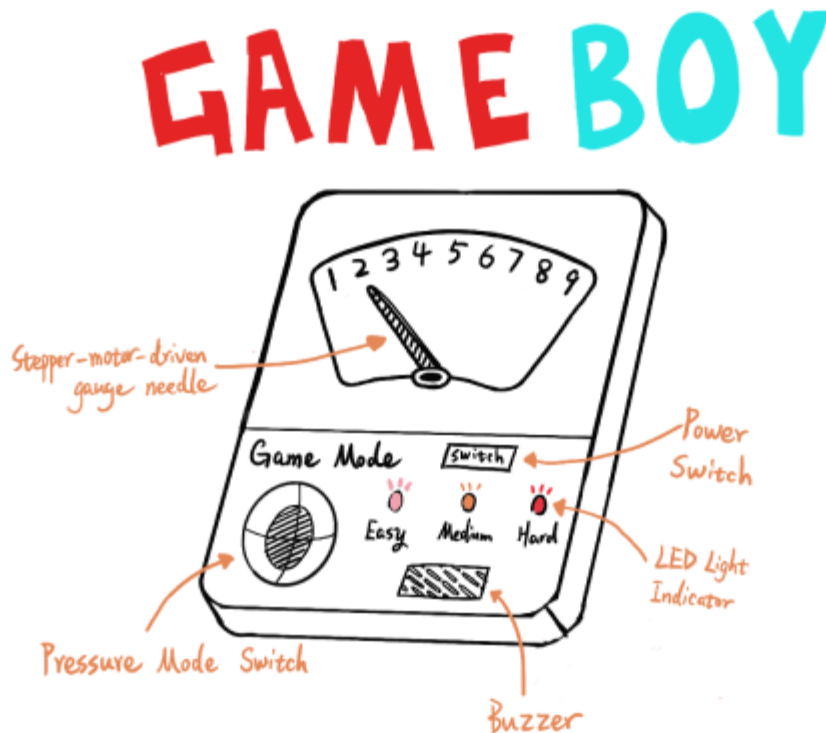
# System Architecture with Diagram

## Dial Lock Memory Gameboy

### Brief

I want to make a memory training product which references the design of a combination carousel lock. The user needs to memorize a string of numbers randomly generated by the system, and judge whether they have memorized them by clicking on the numbers in sequence.

### Sketches



## Sensor

### Pressure Sensor



#### SPECIFICATION:

Model: DF9-16

Thickness: 0.4 mm

Trigger force: 20 g, triggered when resistance is less than 200 kΩ by default

Pressure sensing range: 20 g ~ 2 kg

Pressure action mode: Static or dynamic (frequency within 10 Hz)

Non-trigger resistance: More than 10 MΩ

Activation time: less than 0.01 s

Operating temperature: -40 °C ~ +85 °C

Lag: +10%, (RF+ - RF-)/FR+, 1000g force

Response time: < 10 ms

Drifting: <5%, 1Kg force static load 24H

Weight: 1 g / 0.04oz (approx.)

Package list:

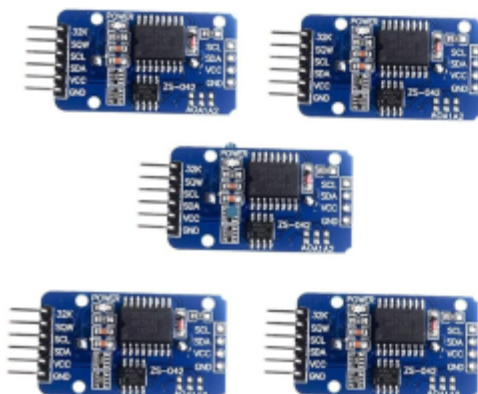
2 \* Pressure Sensors

Note: Please allow small size error due to manual measurement.

Thanks for your understanding.

Select the game mode as well as the difficulty of the game by using the pressure sensor

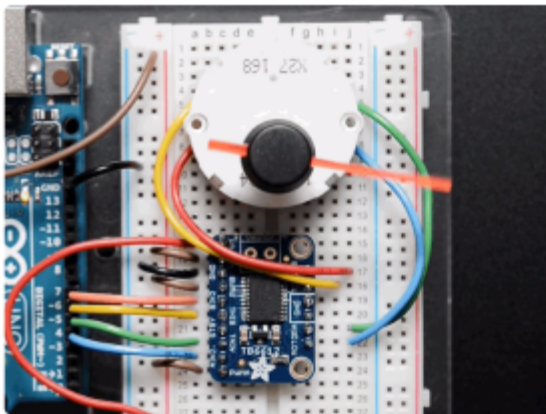
### Timer alarm clock



Count and record the time, if spent too much time game will be over.

## Display

### Stepper-motor-driven gauge needle



Use the rotation of the needle to indicate the number, and return directly to the origin in case of input errors

## LED Light



Use the LEDs to indicate the game mode and whether or not you have answered correctly.

## Diagram

