

空氣監測站

Air Monitoring System

參賽編號：S23

La Salle College

Version 3.2



長者 elderly

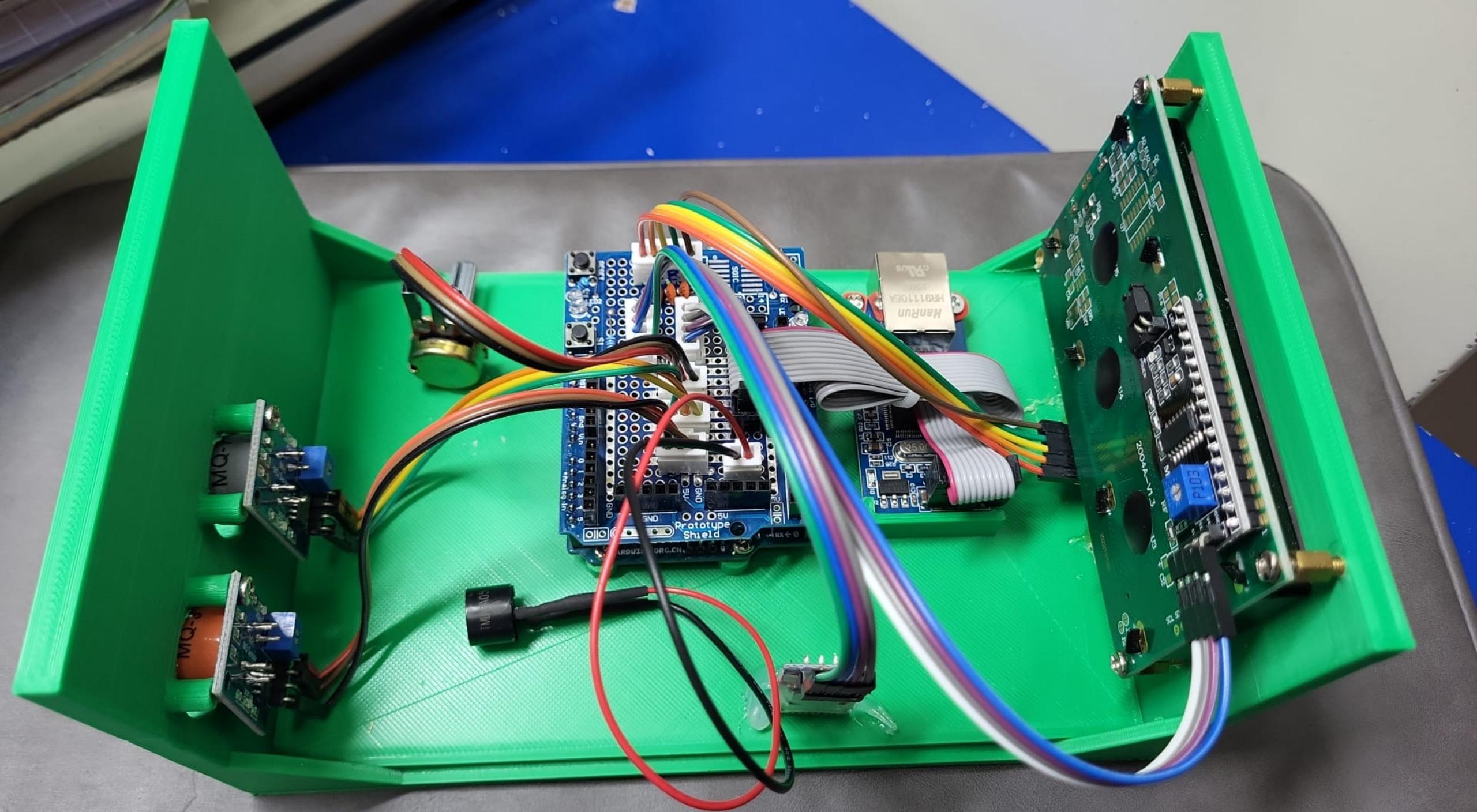


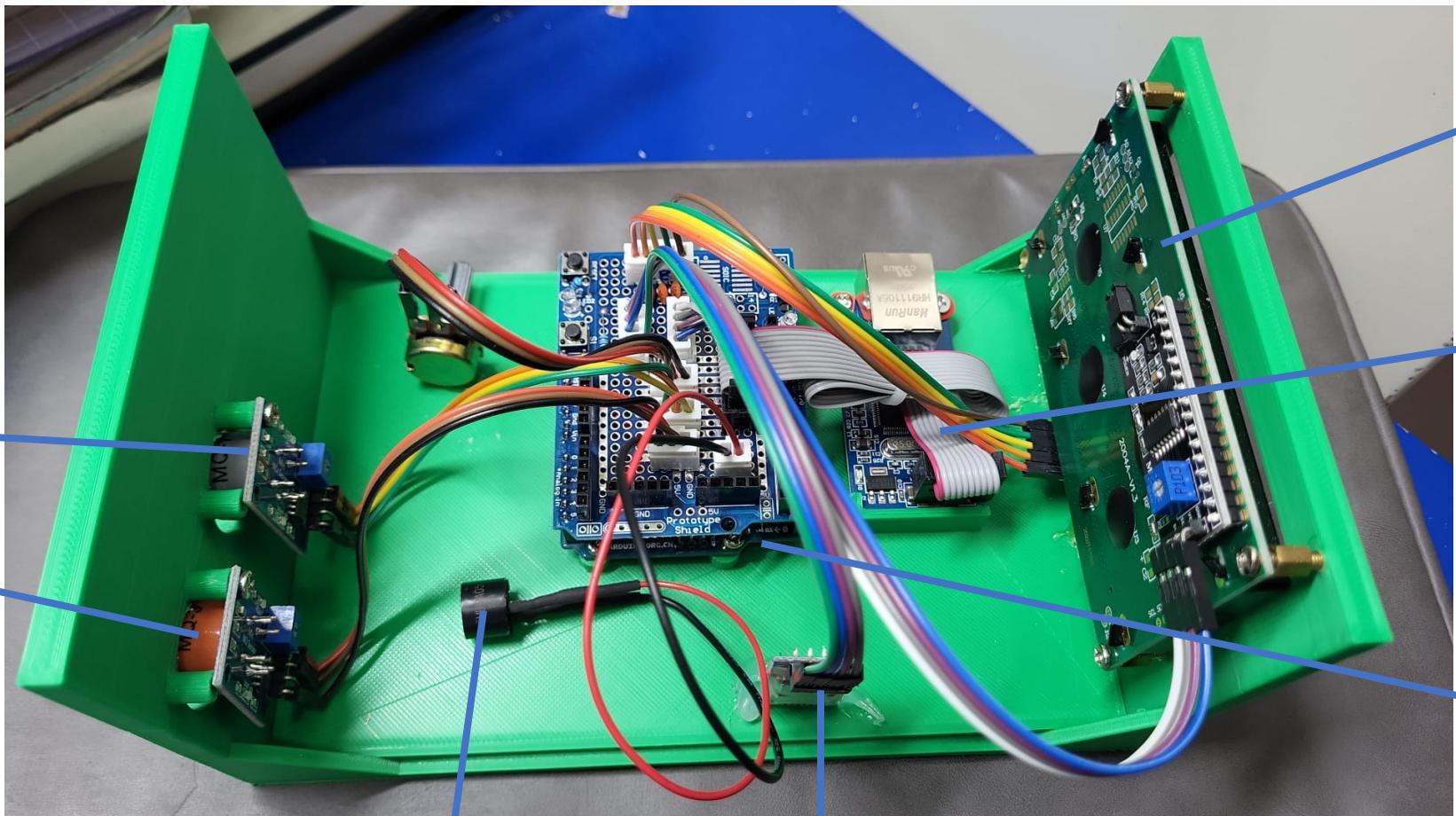
- 樂齡科技 ↔ 與長者有關
Related to elderly
- 安全意識
Safety Consciousness
- 例子：熱水澡
Example: A hot water bath

目的

Purpose of our product







MQ 系列
探測器
(圖中為 MQ-3
和 MQ-7 ,
可更換)

MQ-series
sensors
(MQ-3 and
MQ-7 in
this diagram,
can change
up to needs)

蜂鳴器
Buzzer

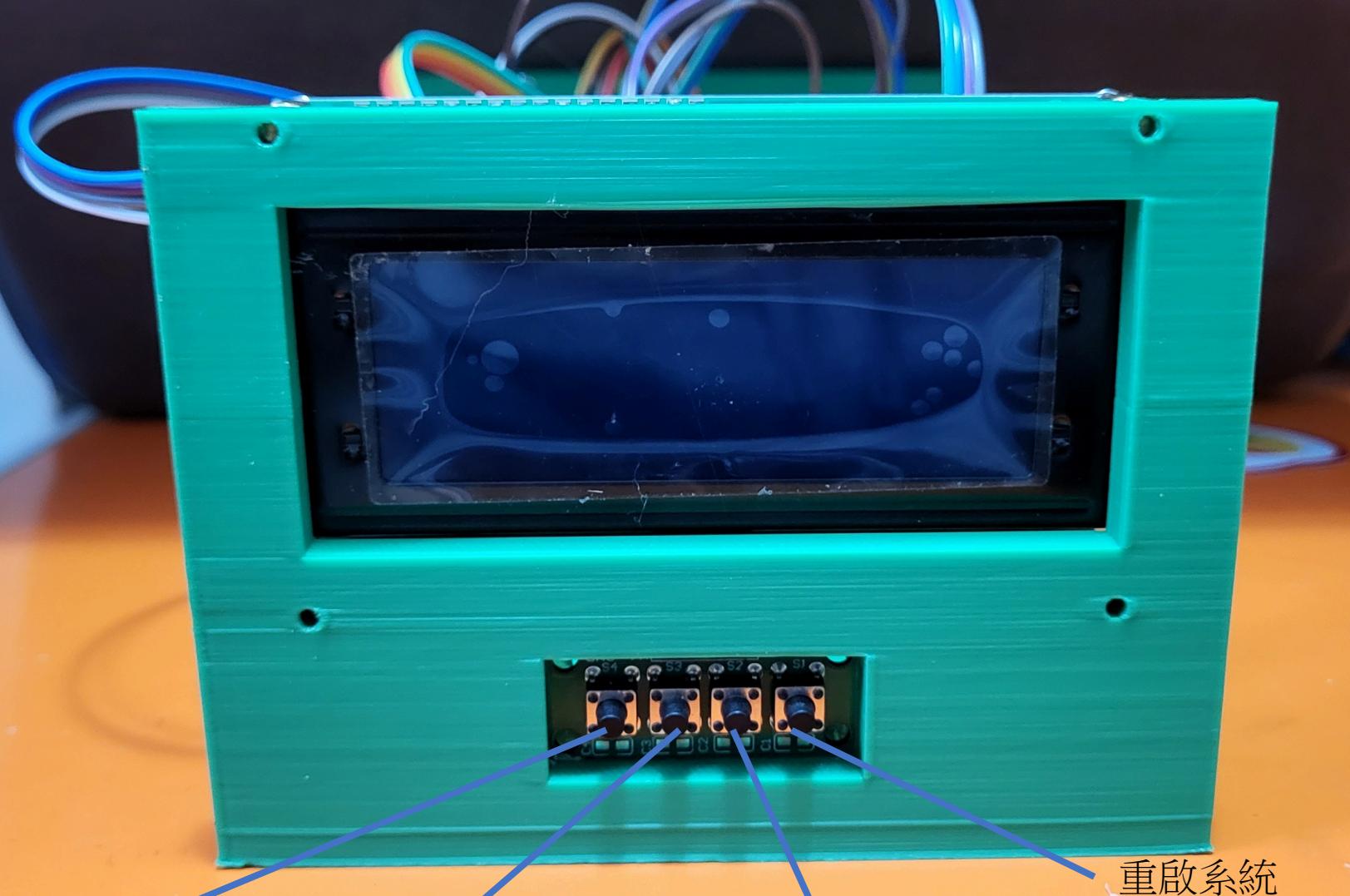
HC-06 藍芽模組
HC-06 Bluetooth module

2004A 液晶顯示器
2004A LCD
display

W5100/W5500乙太網
擴展版/模塊

W5100/
W5500
Ethernet shield/
module

Arduino Uno



允許/禁止用網絡傳送讀數
Enable/Disable sending data
to the IP address

允許/禁止用藍芽傳送讀數
Enable/Disable sending data
to smart phone using Bluetooth

在顯示器上顯示探測器讀數
To show the sensor readings

重啟系統
Rebooting the system

好處

Advantage of
our device

Flexible

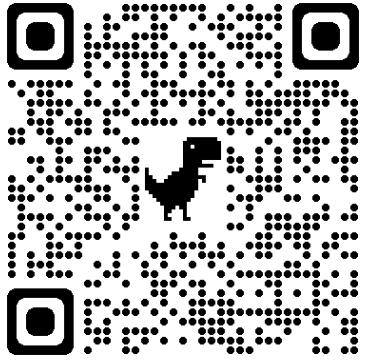
Affordable

Migratable

Extensible

If you want to know how the system works, please visit:

<https://drive.google.com/file/d/1oYti4GL02FGXTXtIRkP-JbMugn9ZTjfW/view?usp=sharing>



For details of how the gas sensor works, please visit:

MQ-3 sensor : <https://lastminuteengineers.com/mq3-alcohol-sensor-arduino-tutorial/>



MQ-7 sensor : <https://www.circuits-diy.com/mq7-carbon-monoxide-co-gas-sensor-module/>



Notes: You may use other MQ series sensors with this system