

電通二乙微處理器實驗 實驗結報

實驗名稱	BLE		
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1. 實驗目的

練習使用 BLE 的相關功能

2. 實驗步驟

1. 下載範例程式 BeaconAdvertisement
2. 修改 configAsIBeacon 中的 Major/Minor 為自己學號後四碼
3. 掃描是否可以看到自己的 iBeacon

3. 程式碼

```
#include <LBLE.h>
#include <LBLEPeripheral.h>

void setup() {
  //Initialize serial and wait for port to open:
  Serial.begin(9600);

  // Initialize BLE subsystem
  Serial.println("BLE begin");
  LBLE.begin();
  while (!LBLE.ready()) {
    delay(100);
  }
  Serial.println("BLE ready");

  // configure our advertisement data as iBeacon.
  LBLEAdvertisementData beaconData;

  // This is a common AirLocate example UUID.
  LBLEUuid uuid("E2C56DB5-DFFB-48D2-B060-D0F5A71096E0");
  beaconData.configAsIBeacon(uuid, 05, 08, -40);

  Serial.print("Start advertising iBeacon with uuid=");
  Serial.println(uuid);

  // start advertising it
  LBLEPeripheral.advertise(beaconData);
}

void loop() {
  // The underlying framework will advertise periodically.
  // we simply wait here.
```

```
//  
// You can use iBeacon apps such as  
// "Locate Beacon" by Radius Networks on iOS devices  
// to locate this beacon.  
delay(3000);  
}
```