

PLATFORMIO

...

PROJECT TASKS

- > Default
- seeed_xiao_esp32c3
 - General
 - Build
 - Upload
 - Monitor
 - Upload and Monitor
 - Clean
 - Full Clean
 - Devices
 - Platform
 - Build Filesystem Image
 - Program Size
 - Upload Filesystem Image
 - Upload Filesystem Image OTA
 - Erase Flash

QUICK ACCESS

- PIO Home
 - Open
 - PIO Account
 - Inspect
 - Projects & Configuration
 - Libraries
 - Boards
 - Platforms
 - Devices
- Debug
 - Start Debugging
 - Toggle Debug Console
- Miscellaneous
 - Serial & UDP Plotter
 - PlatformIO Core CLI
 - Clone Git Project

main.cpp X PIO Home platformio.ini

src > main.cpp > setup()

```
1 #include <Arduino.h>
2 #include <Bounce2.h>
3
4 const int SWITCH_PIN = D2;
5 const int LED_PIN = D10;
6
7 Bounce2::Button button = Bounce2::Button();
8 bool ledState = false;
9
10 void setup() {
11     Serial.begin(115200);
12
13     pinMode(LED_PIN, OUTPUT);
14     digitalWrite(LED_PIN, LOW);
15
16     button.attach(SWITCH_PIN, INPUT_PULLUP);
17     button.interval(50);
18     button.setPressedState(LOW);
19
20     Serial.println("Ready");
21 }
22
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

.2 kbit/s)...
Hash of data verified.
Compressed 246448 bytes to 137322...
Writing at 0x00010000... (11 %)
Writing at 0x0001af22... (22 %)
Writing at 0x00022c78... (33 %)
Writing at 0x00028b55... (44 %)
Writing at 0x0002ecc2... (55 %)
Writing at 0x00034c72... (66 %)
Writing at 0x0003c965... (77 %)
Writing at 0x00043673... (88 %)
Writing at 0x00049a1d... (100 %)
Wrote 246448 bytes (137322 compressed) at 0x00010000 in 2.1 seconds (effective 933.2 kbit/s)...
Hash of data verified.

Leaving...
Hard resetting via RTS pin...
===== [SUCCESS] Took 3.84 seconds =====

* Terminal will be reused by tasks, press any key to close it.

The screenshot shows the PlatformIO IDE interface with the following details:

- Project Navigation:** On the left, the "PROJECT TASKS" section is expanded, showing tasks like Default, seeed_xiao_esp32c3 (General: Build, Upload, Monitor, Upload and Monitor, Clean, Full Clean, Devices, Platform: Build Filesystem Image, Program Size, Upload Filesystem Image, Upload Filesystem Image OTA, Erase Flash), and a "QUICK ACCESS" section with links to PIO Home, Debug, and Miscellaneous tools.
- Code Editor:** The main editor window displays the file `main.cpp` with the following content:

```
/* hello_xiao      A first sketch for the Seeed Studio XIAO ESP32C3 in PlatformIO */
 *This example code is in the public domain.
 *Michel Deslierres June 15, 2020 */

#include <Arduino.h> // needed in PlatformIO

void setup() {
    Serial.begin(115200);
}

void loop() {
    Serial.println("Hello XIAO!");
    delay(2000);
}
```
- Terminal:** The "TERMINAL" tab is active, showing the output of the "platformio device monitor" task:

```
* Executing task: platformio device monitor
--- Terminal on /dev/cu.usbmodem1101 | 115200 8-N-1
--- Available filters and text transformations: colorize, debug, default, direct, esp32_exception_decoder, hexlify, log2file, nocontrol, printable, send_on_enter, time
--- More details at https://bit.ly/pio-monitor-filters
--- Quit: Ctrl+C | Menu: Ctrl+T | Help: Ctrl+T followed by Ctrl+H
Hello XIAO!
Hello XIAO!
Hello XIAO!
Hello XIAO!
Hello XIAO!
```
- Right Sidebar:** Shows the "platformio.ini" configuration file and a preview of the "Serial Plotter" tool.
- Bottom Bar:** Includes icons for file operations (New, Open, Save, etc.), build status (0 errors, 0 warnings), and tabs for Default (hello_xiao) and Auto.



tong0701 Update main.cpp

1af0781 · now

 History

Name	Last commit message	Last commit date
 ..		
 src	Update main.cpp	now
 README.md	Clean README for Lab 1	1 minute ago
 platformio.ini	Remove note about changing board configuration	1 minute ago

README.md

Lab 1 – PlatformIO



tong0701 Update main.cpp

1af0781 · now

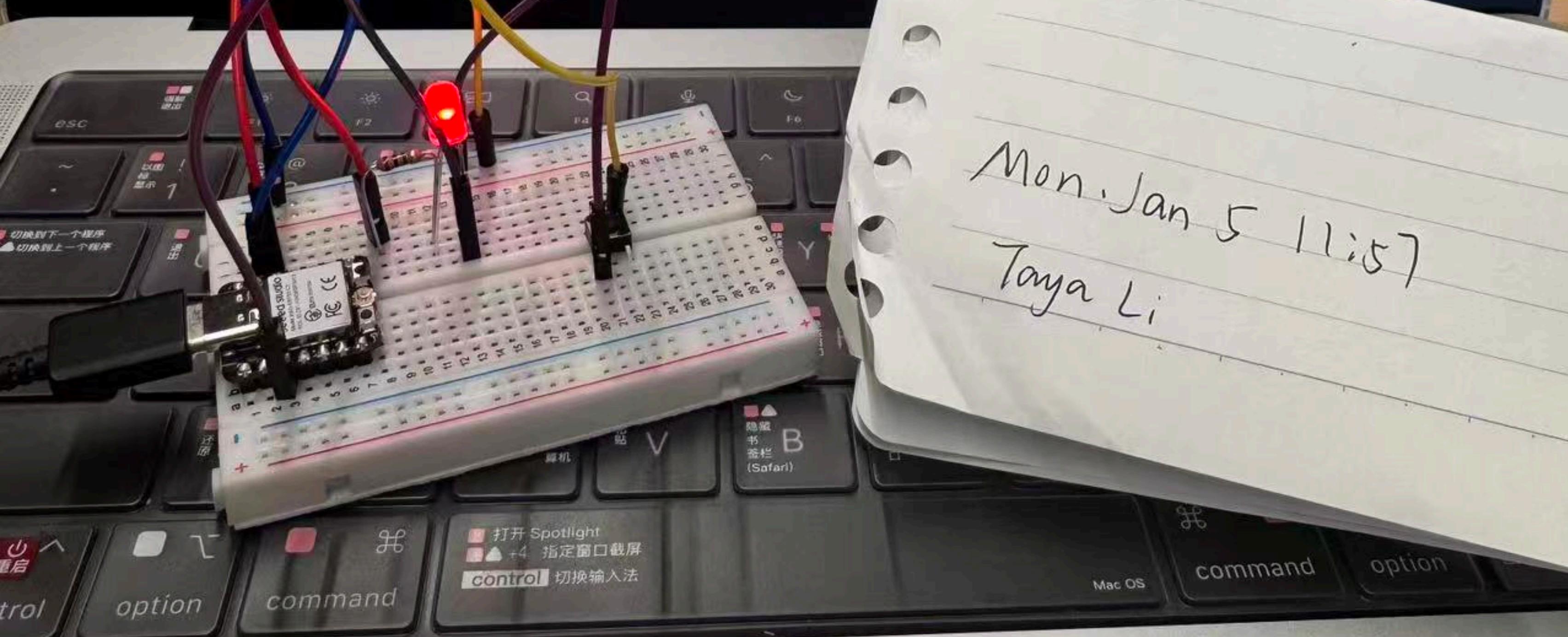
History

Name	Last commit message	Last commit date
..		
main.cpp	Update main.cpp	now

```
src > main.cpp > ...
1 #include <Arduino.h>
2 #include <Bounce2.h>
3
4 const int SWITCH_PIN = D2;
5 const int LED_PIN = D10;
6
7 Bounce2::Button button = Bounce2::Button();
8 bool ledState = false;
9
10 void setup() {
11     Serial.begin(115200);
12
13     pinMode(LED_PIN, OUTPUT);
14     digitalWrite(LED_PIN, LOW);
15
16     button.attach(SWITCH_PIN, INPUT_PULLUP);
17     button.interval(50);
18     button.setPressedState(LOW);
19
20     Serial.println("Ready");
21 }
22
```

.6 kbit/s)...
Hash of data verified.
Compressed 246448 bytes to 137322...
Writing at 0x00010000... (11 %)
Writing at 0x0001af22... (22 %)
Writing at 0x00022c78... (33 %)
Writing at 0x00028b55... (44 %)
Writing at 0x0002ecc2... (55 %)
Writing at 0x00034c72... (66 %)
Writing at 0x0003c965... (77 %)
Writing at 0x00043673... (88 %)
Writing at 0x000490d... (100 %)
Wrote 246448 bytes (137322 compressed) at 0x00010000 in 2.1 seconds (effective 942.6 kbit/s)...
Hash of data verified.

Leaving...
Hard resetting via RTS pin...
[SUCCESS] Took 3.78 seconds
Terminal will be reused by tasks, press any key to close it.



```
src > main.cpp > setup()
1 #include <Arduino.h>
2 #include <bounce2.h>
3
4 const int SWITCH_PIN = 02;
5 const int LED_PIN = 010;
6
7 Bounce2::Button button = Bounce2::Button();
8 bool lastState = false;
9
10 void setup() {
11   Serial.begin(115200);
12
13   pinMode(LED_PIN, OUTPUT);
14   digitalWrite(LED_PIN, LOW);
15
16   button.attach(SWITCH_PIN, INPUT_PULLUP);
17   button.interval(50);
18   button.setDebounceTime(100);
19
20   Serial.println("Ready");
21
22 }
```

PROBLEMS: OUTPUT STATUS CONSOLE TERMINAL FONTS

6 kbit/s)...
Rest of data verified.
Compressed 265648 bytes to 137322...
Writing at 800000bytes... (21 %)
Writing at 800001-800012... (22 %)
Writing at 800002-800017... (33 %)
Writing at 8000028-800055... (44 %)
Writing at 8000056-800083... (55 %)
Writing at 8000084-800092... (66 %)
Writing at 8000093-8000985... (77 %)
Writing at 8000099-80003873... (88 %)
Writing at 8000049-80004948... (100 %)
rote 265648 bytes (137322 compressed) at 80000000 in 2.1 seconds left
6 kbit/s)...
Rest of data verified.

Mon. Jan 5 11:57
Tanya L.