



LOMBOK{DEV}

#006

"ROAD TO SILICON ISLAND"

Meet LumPy!



“a world populated by enchanted objects, magical forces, and incantations that bestow upon the user the ability to transform the world around them...”

J.K. Rowling's, Harry Potter books



What is Lumpy?

1 Microcontroller

amazing and seemingly magical things.

2 Python inside

easy-to-learn, widely used, and expressive programming language

3 Designed in Lombok

How cool is that :)

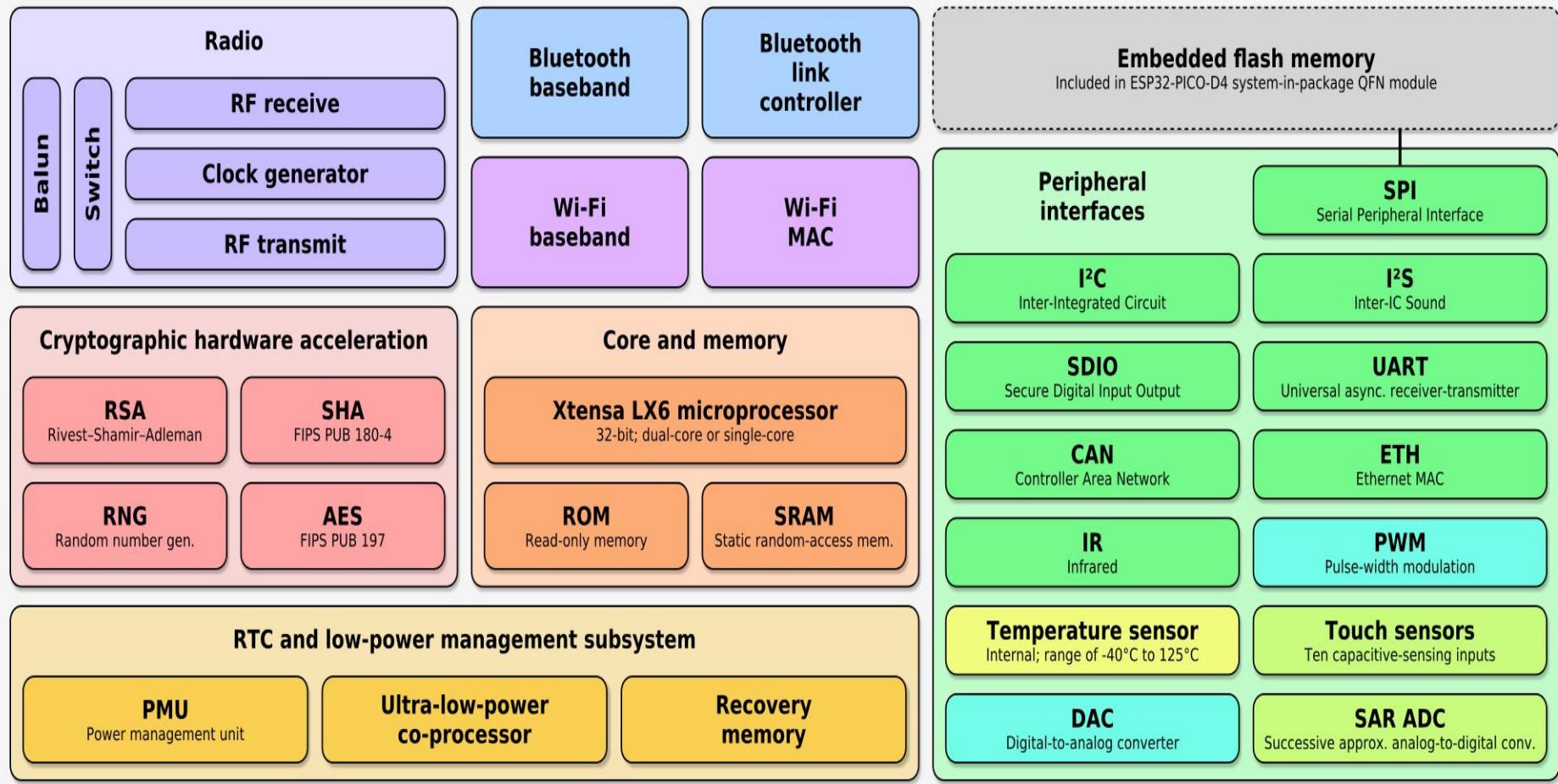


Microcontroller is everywhere!

They have agency

Autonomy

Espressif ESP32 Wi-Fi & Bluetooth Microcontroller — Function Block Diagram





“What would I do if I could
program these devices?”



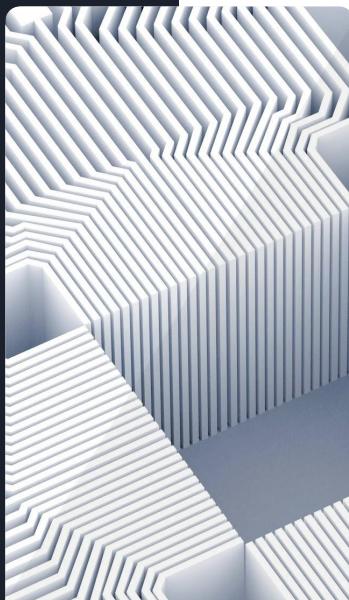
“Lumpy, turn on the light!”



“Lumpy, unlock the door!”

LumpyBoard (micropython)

```
1| import lumpy  
2| lumpy.blink(23, 500)
```



Blink Code

Arduino (C++)

```
1| void setup(){  
2|     pinMode(23, OUTPUT);  
3| }  
4| void loop(){  
5|     digitalWrite(23, HIGH);  
6|     delay(500);  
7|     digitalWrite(23, LOW);  
8|     delay(500);  
9| }
```

LumpyBoard (micropython)

```
1| import lumpy  
2| lumpy.start_sta("ssid", "password")
```



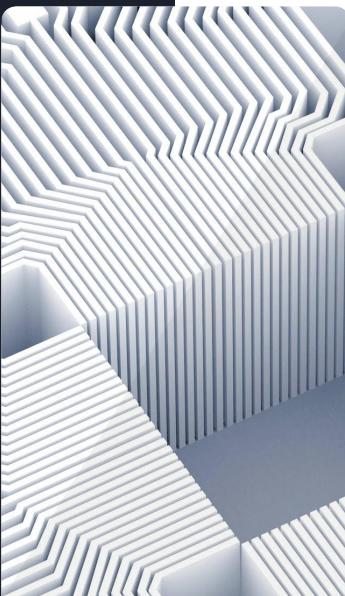
WiFi Client

Arduino (C++)

```
1| #include <WiFi.h>  
2| void setup(){  
3|   WiFi.begin("ssid", "password");  
4| }  
5| void loop(){  
6| }
```

LumpyBoard (micropython)

```
1| import lumpy  
2| lumpy.start_ap("ssid", "password")
```

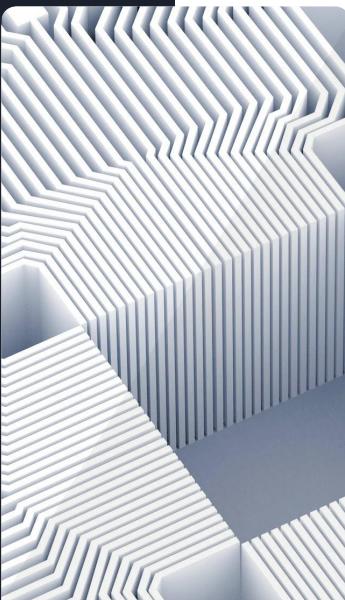


Arduino (C++)

```
1| #include <WiFi.h>  
2| void setup(){  
3|   WiFi.softAP("ssid", "password");  
4| }  
5| void loop(){  
6| }
```

LumpyBoard (micropython)

```
1| import lumpy
2| lampu = lumpy.relay(23)
3| lampu.on()
4| lampu.off()
```



Relay Control

Arduino (C++)

```
1| #define lampu 23
2| void setup(){
3|   pinMode(lampu, OUTPUT);
4|   digitalWrite(lampu, HIGH);
5|   digitalWrite(lampu, LOW);
6| }
7| void loop(){
8| }
```



Thank you!

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