

Trabalho sobre MQTT

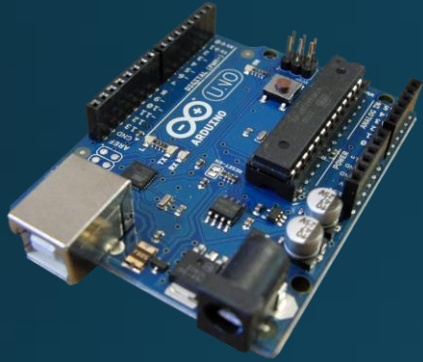
Rubens Cividati

Ideia Principal

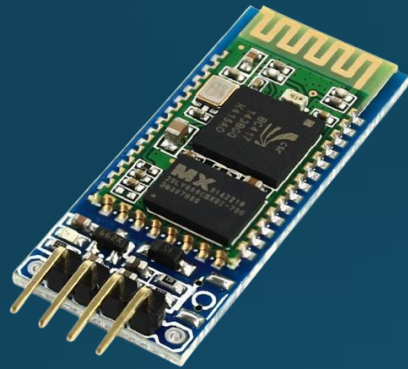
- Automação Residencial
- Ligar e desligar aparelhos pelo celular



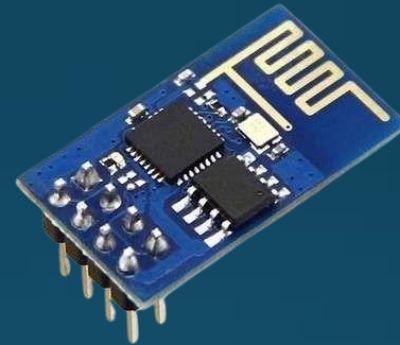
Dispositivos e Sensores



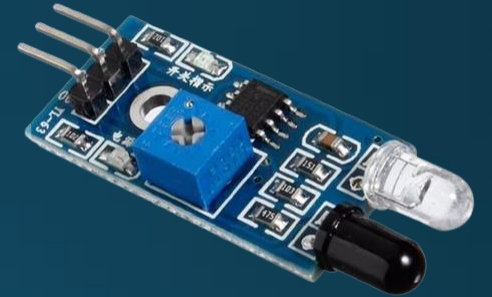
Arduino
UNO



Módulo
BLE

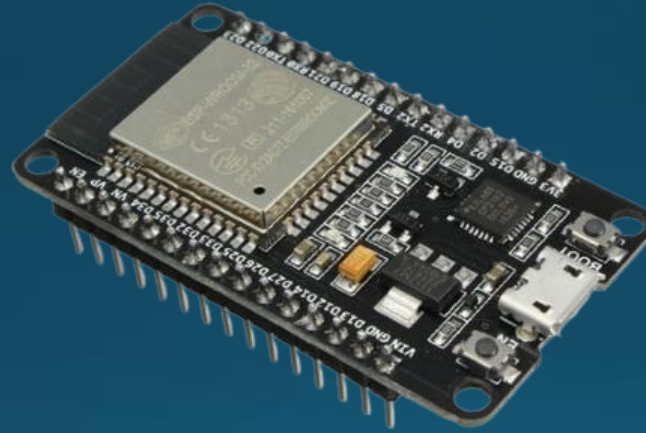


Módulo
wifi



Emissor
Infra Vermelho

Dispositivos e Sensores

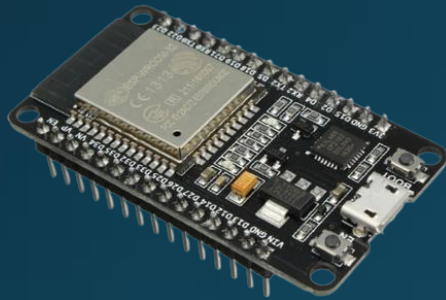


ESP32

Dispositivos e Sensores

	ESP32	ESP8266	ARDUINO UNO R3
Cores	2	1	1
Arquitetura	32 bits	32 bits	8 bits
<u>Clock</u>	160MHz	80MHz	16MHz
<u>WiFi</u>	Sim	Sim	Não
Bluetooth	Sim	Não	Não
RAM	512KB	160KB	2KB
FLASH	16Mb	16Mb	32KB
GPIO	36	17	14
Interfaces	SPI / I2C / UART / I2S / CAN	SPI / I2C / UART / I2S	SPI / I2C / UART
ADC	18	1	6
DAC	2	0	0

Dispositivos e Sensores



ESP32



Tomada
Inteligente



Filtro de Linha
Inteligente

Soluções Similares



Echo dot
Alexa



Google Nest

Tecnologías Envolvidas



Flutter



Arduino

Ideia Principal

