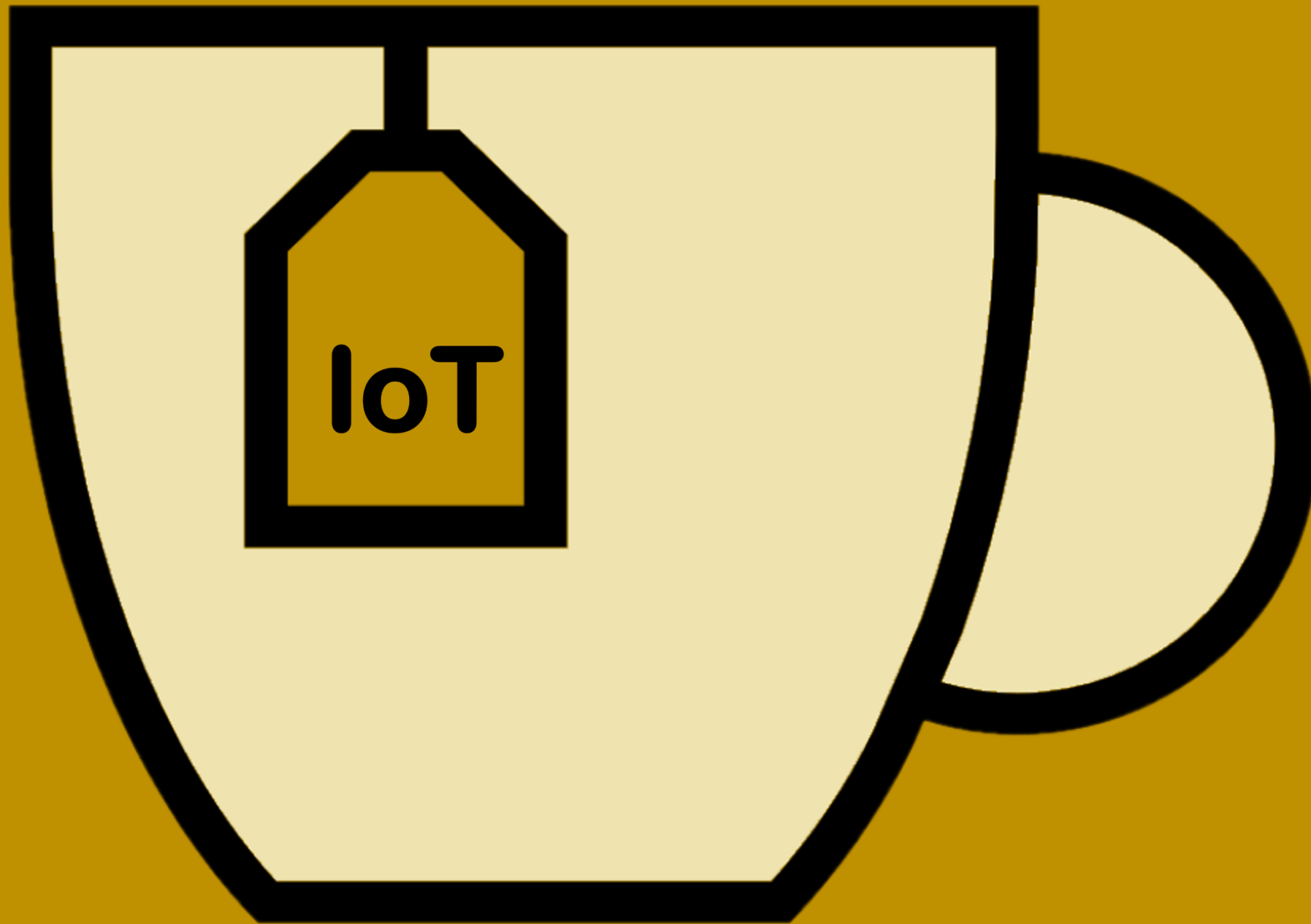


Remo-te

Making... some tea





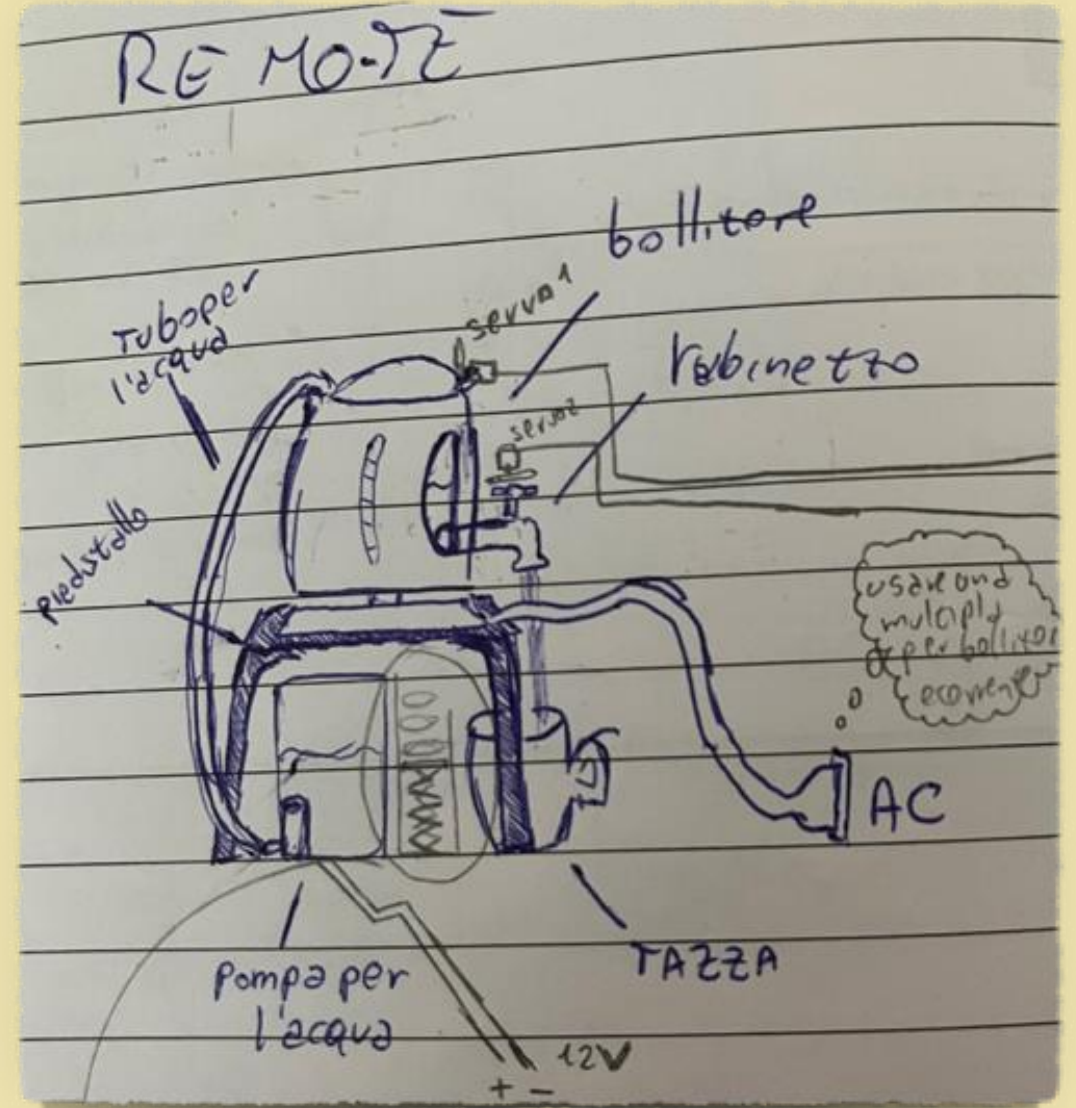
Giacomo Cerino - Agosto 2023

L'idea

Preparare il tè

Automaticamente

Con un tap su
un'applicazione



I problemi

Motore

Stampa 3D

Elettrovalvola

Attrito

I problemi

Bustina di te

Caduta

Comunicazione

Voltaggio



Remo-te

Giacomo Cerino - Agosto 2023

I problemi

Funzionamento dei motori
passo passo

Driver dedicato

Scrittura del software

Gestione surriscaldamento

Motore



I problemi

Strofinamento

Disegno 3D

Minimizzazione del
volume

Attrito



I problemi

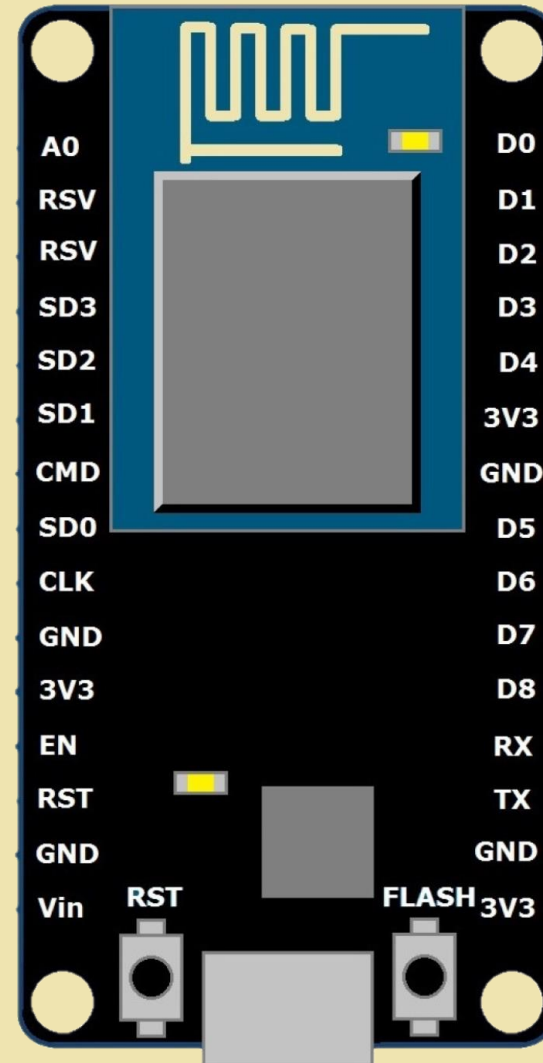
Transistor e Relays

Componenti incompatibili

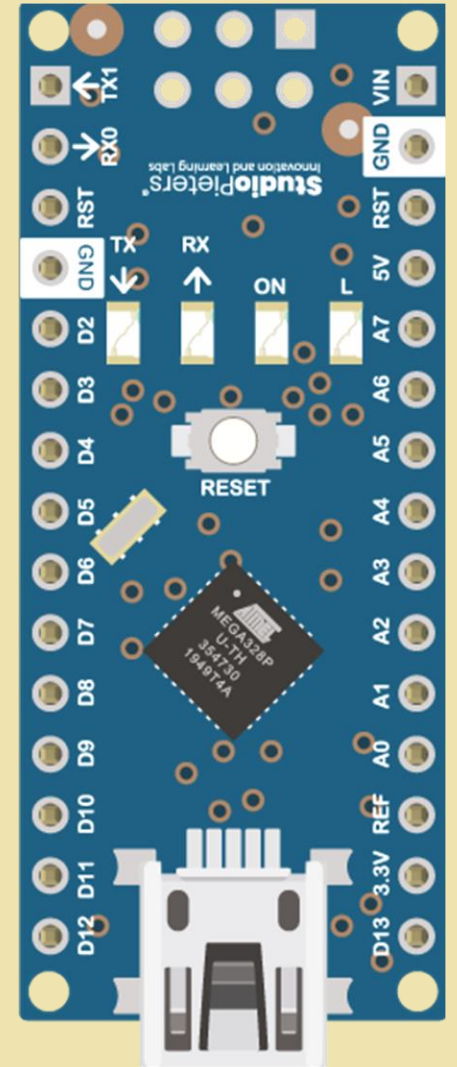
Usare meno schede possibili



Voltaggio



Vs



I problemi

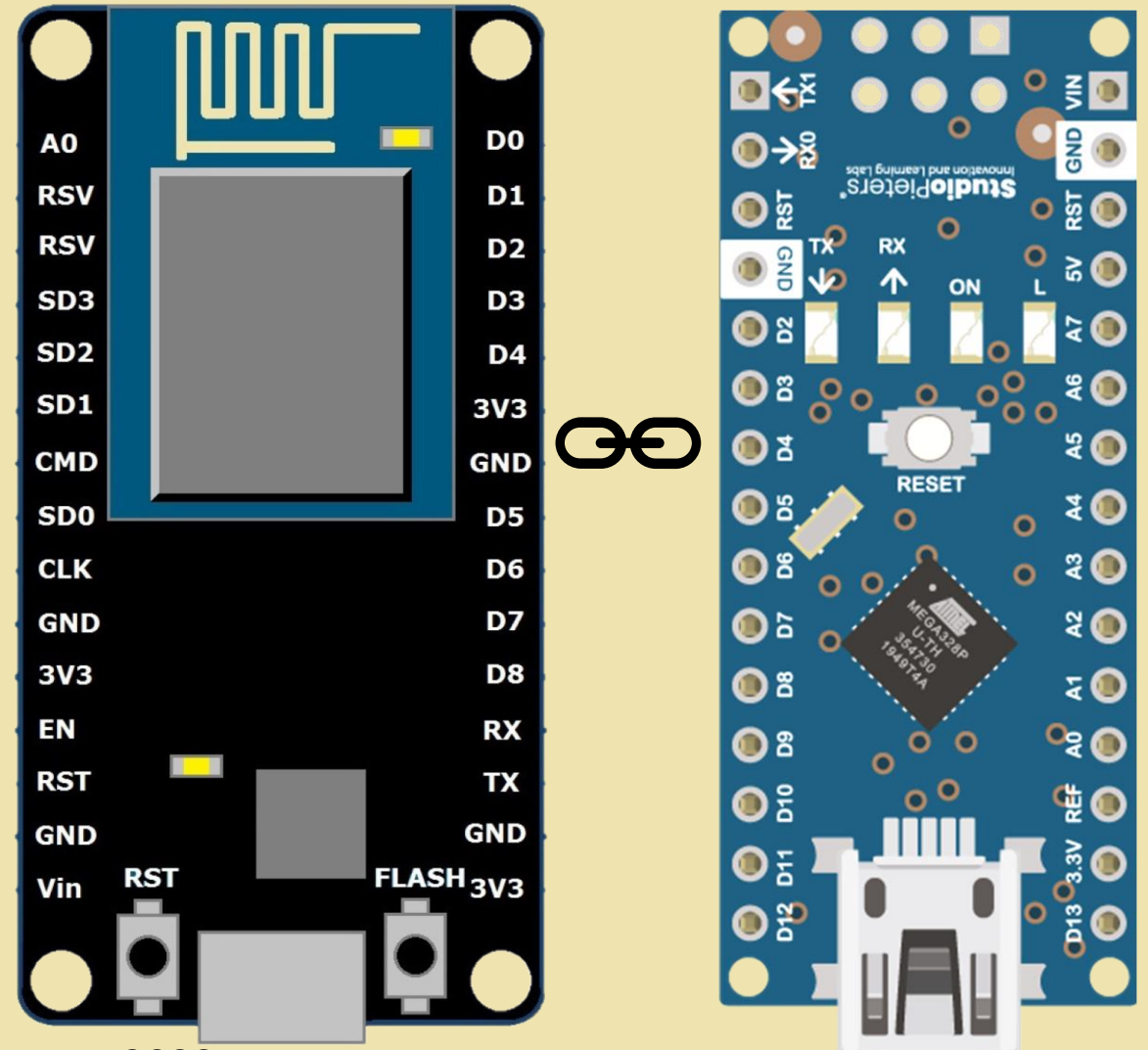
Differenza del numero di porte seriali

Impossibilità di debug e funzionamento simultaneo

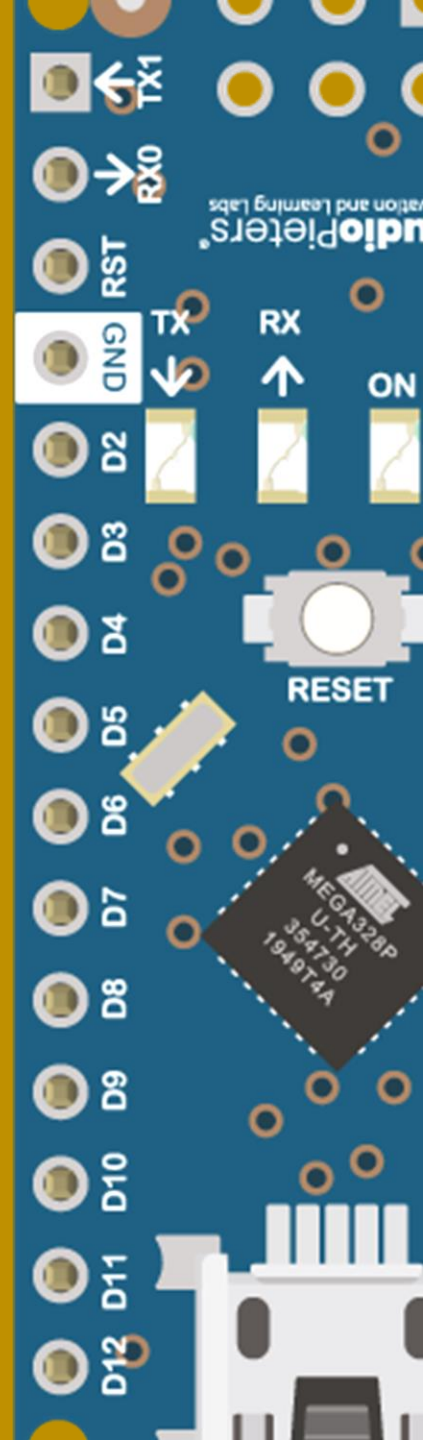
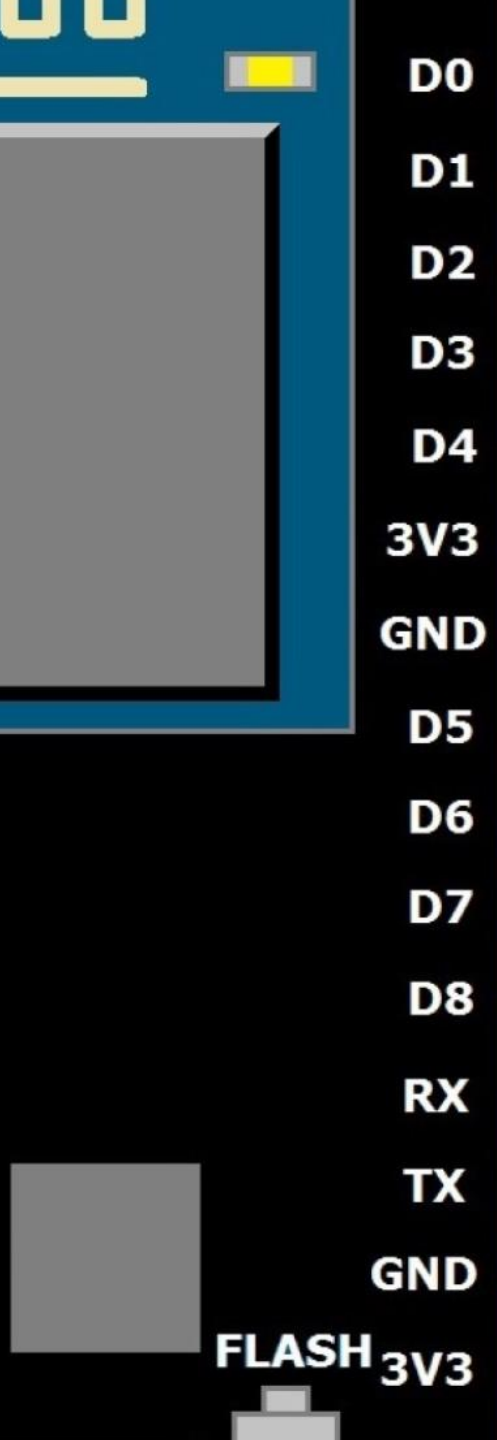
Compromesso



Comunicazione UART



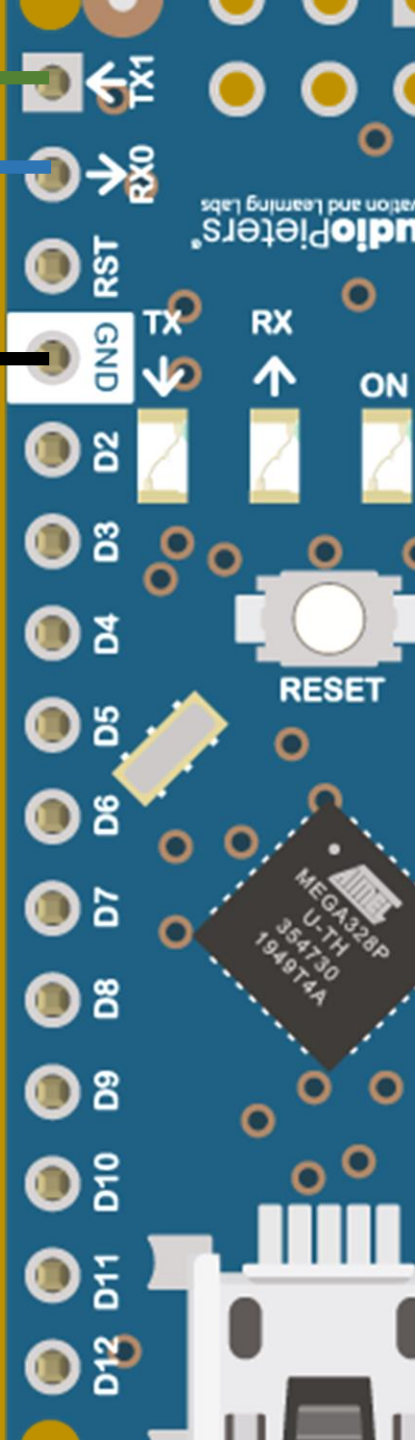
Le tecnologie: UART



Le tecnologie: UART

Comunicazione
bidirezionale
asincrona

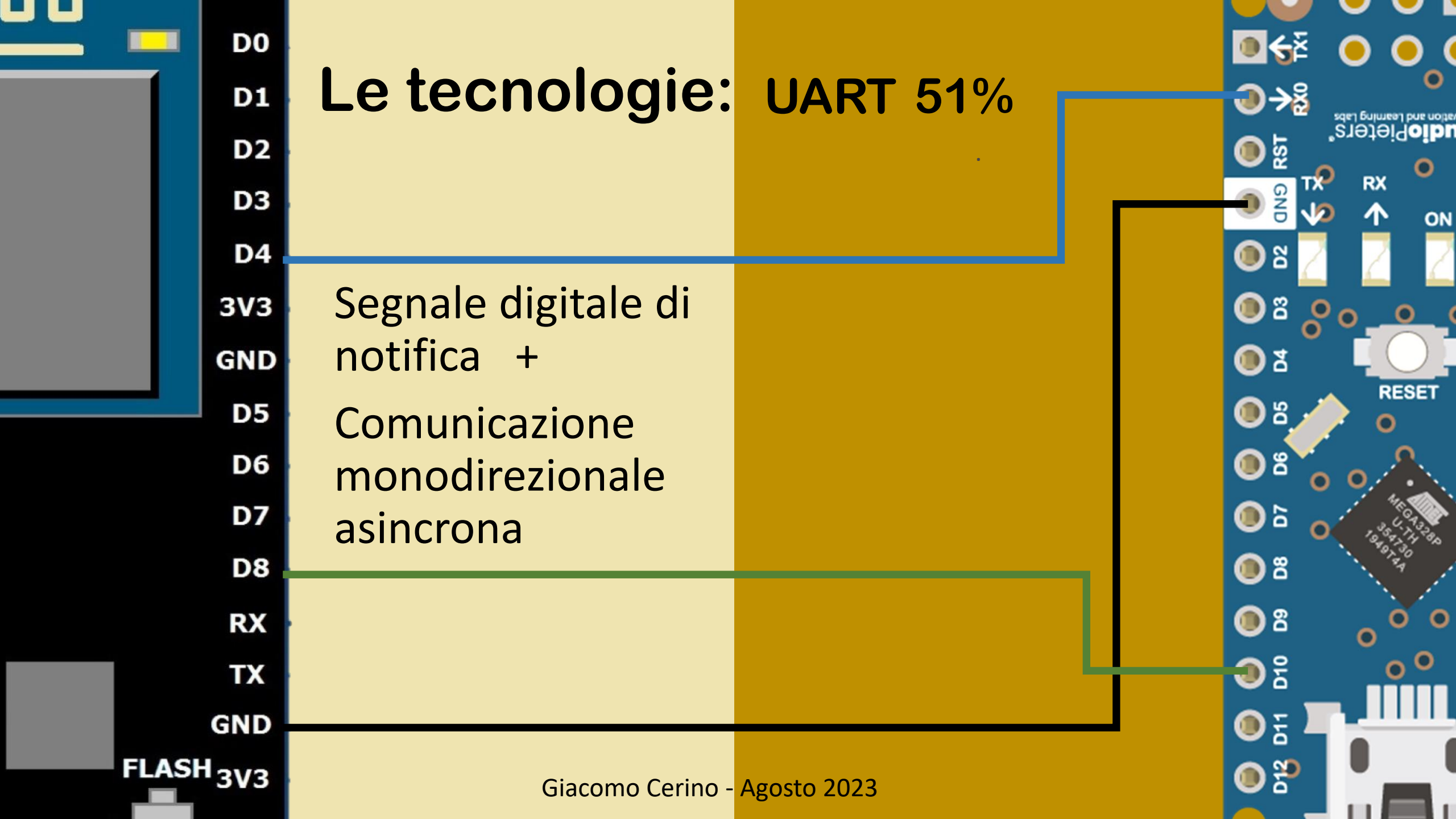
D0
D1
D2
D3
D4
3V3
GND
D5
D6
D7
D8
RX
TX
GND
FLASH 3V3



Le tecnologie: UART 51%

Segnale digitale di
notifica +

Comunicazione
monodirezionale
asincrona



Le tecnologie:

Arduino e
ESP8266

UART

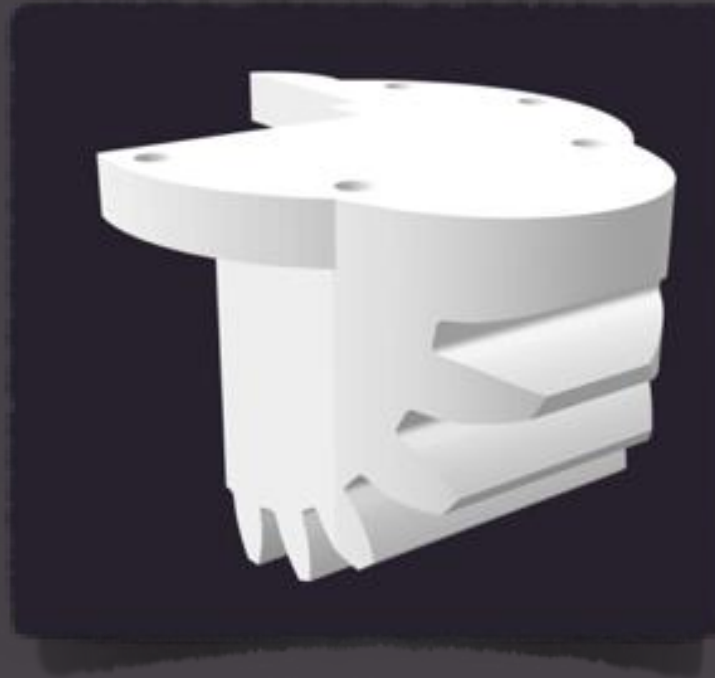
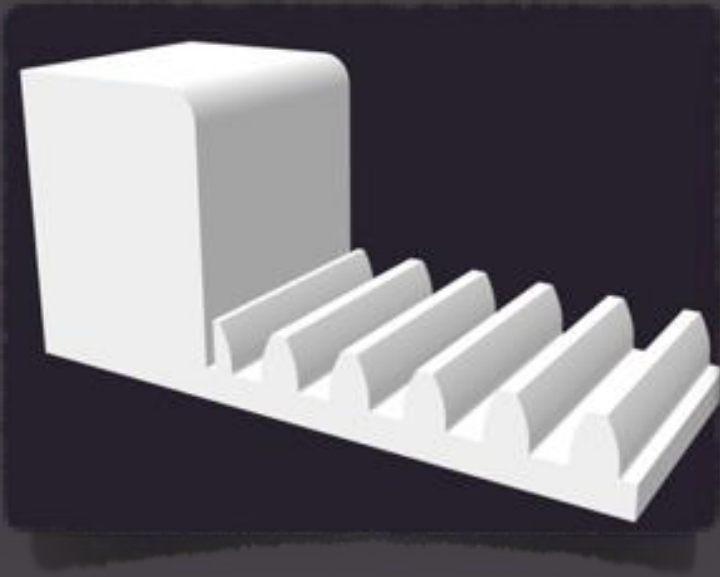
Transistor
e Relays

Stepper
Motor

Design e
stampa 3D

Servo
motori

Design e stampa 3D



Le tecnologie:

Arduino e
ESP8266

UART

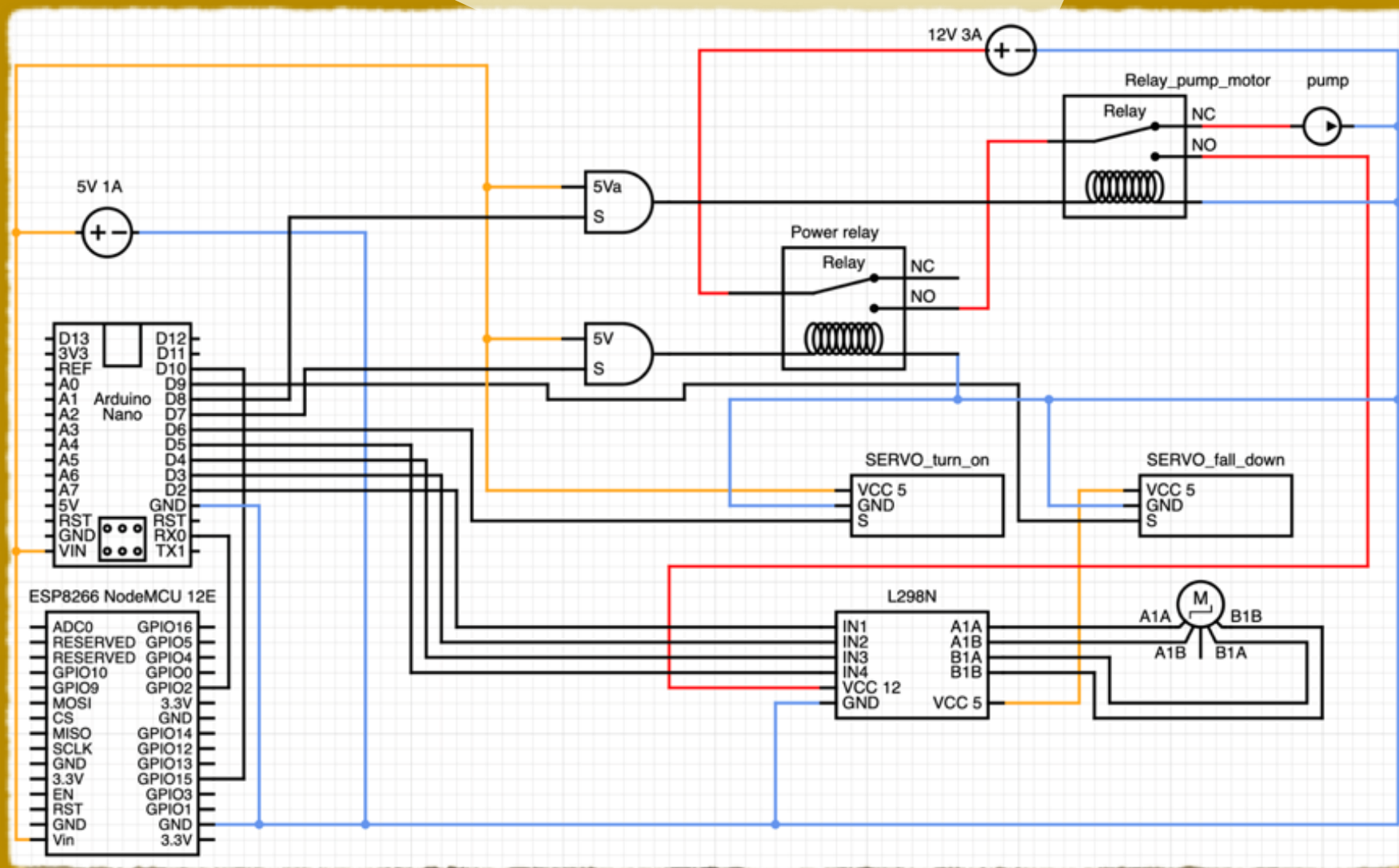
Transistor
e Relays

Stepper
Motor

Design e
stampa 3D

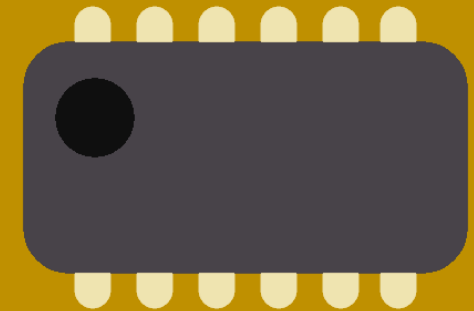
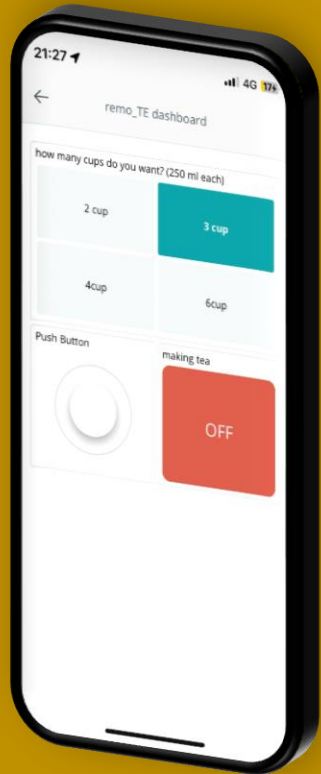
Servo
motori

Il circuito



Il cloud

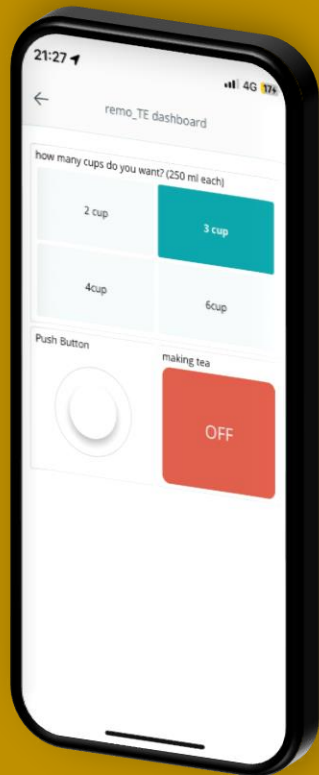
IoT
Cloud



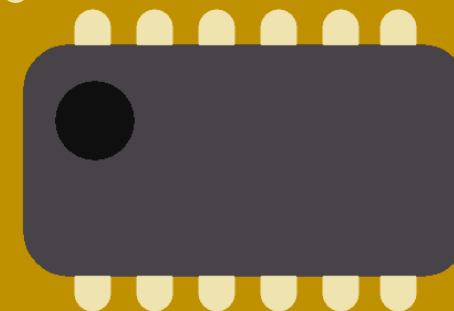
Il cloud

IoT
Cloud

Variables
Devices
Dashboard
Things
Web Editor



IoT Remote



Microcontroller

Il Remotè

