

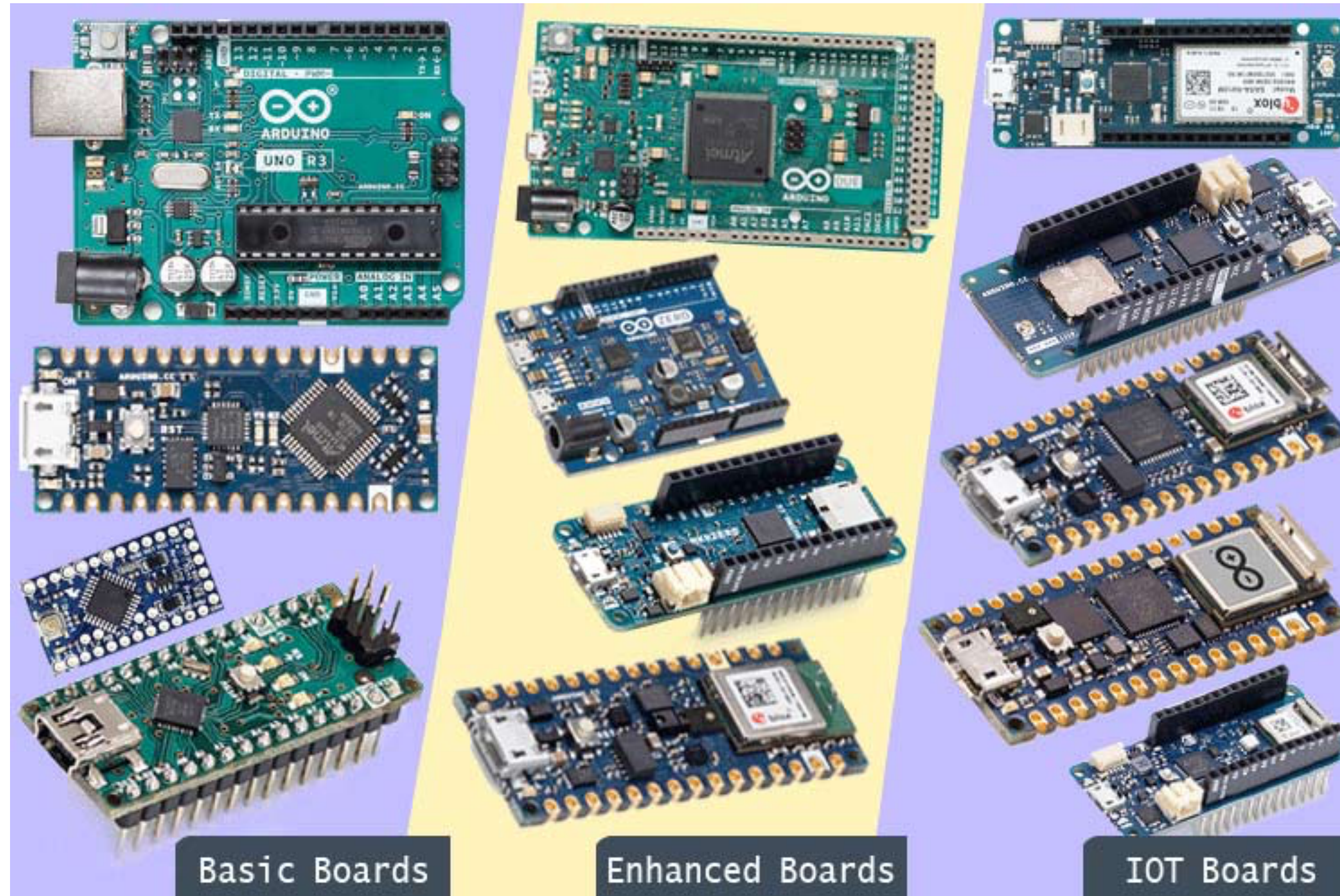
Arduino

Como plataforma de medicion

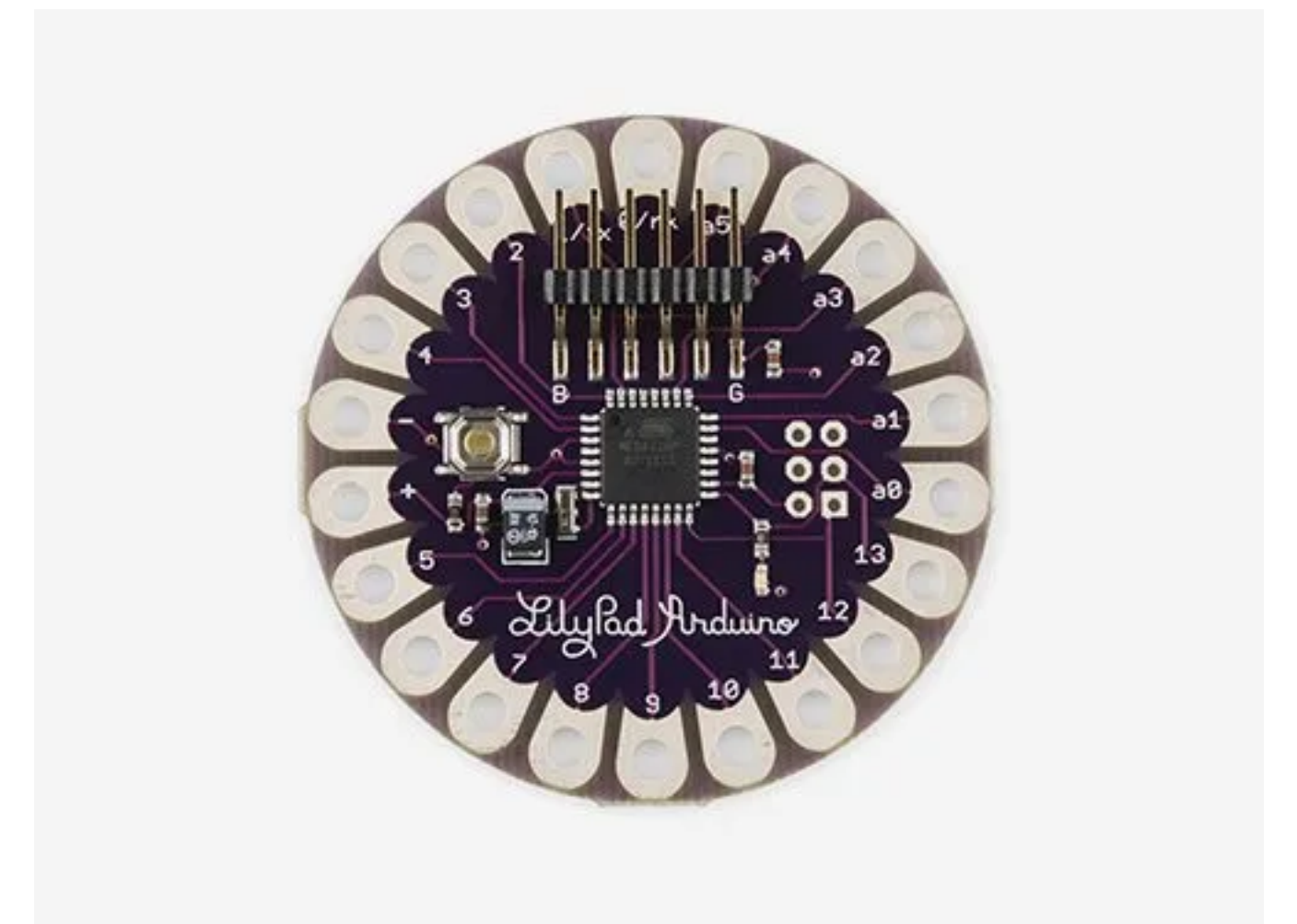
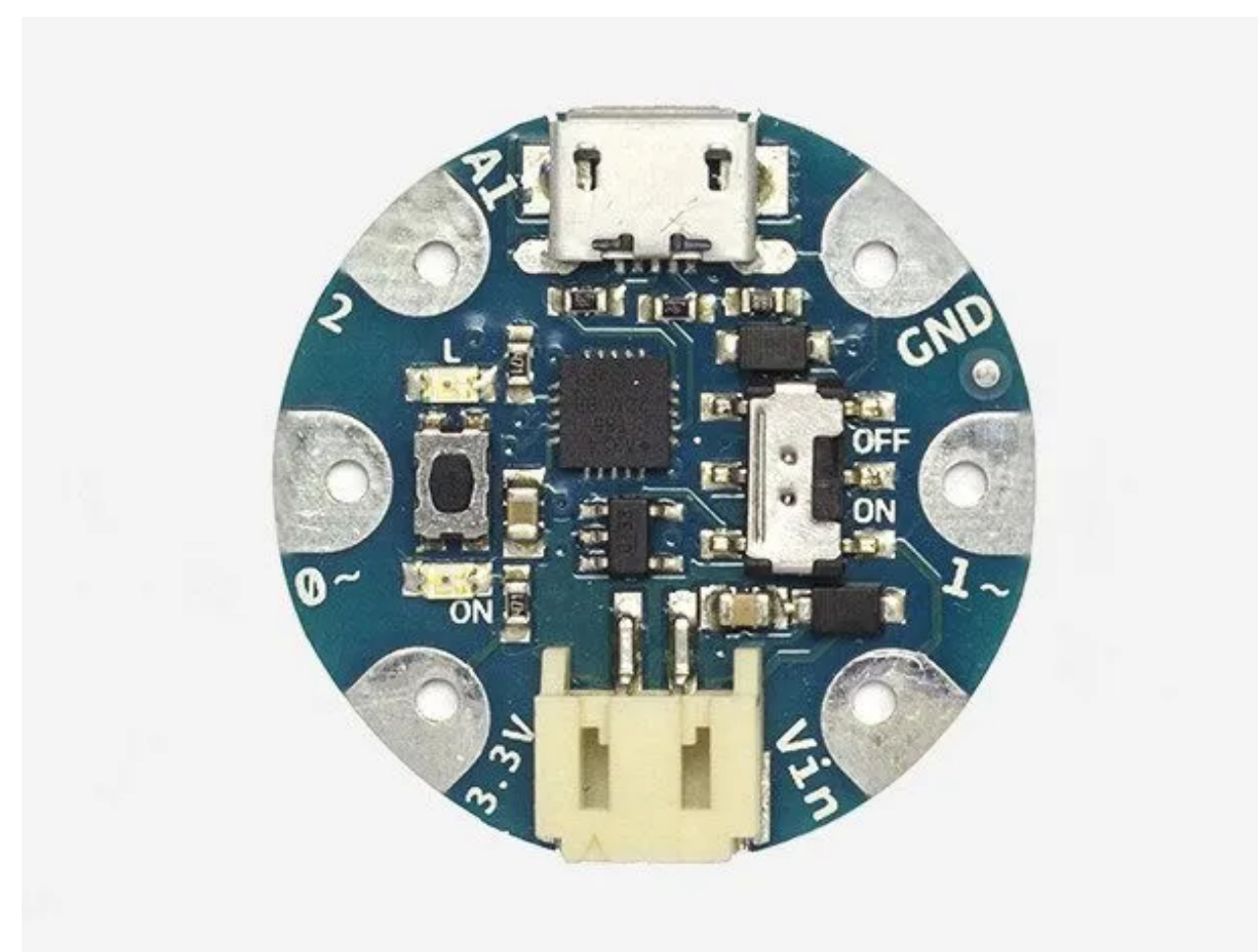
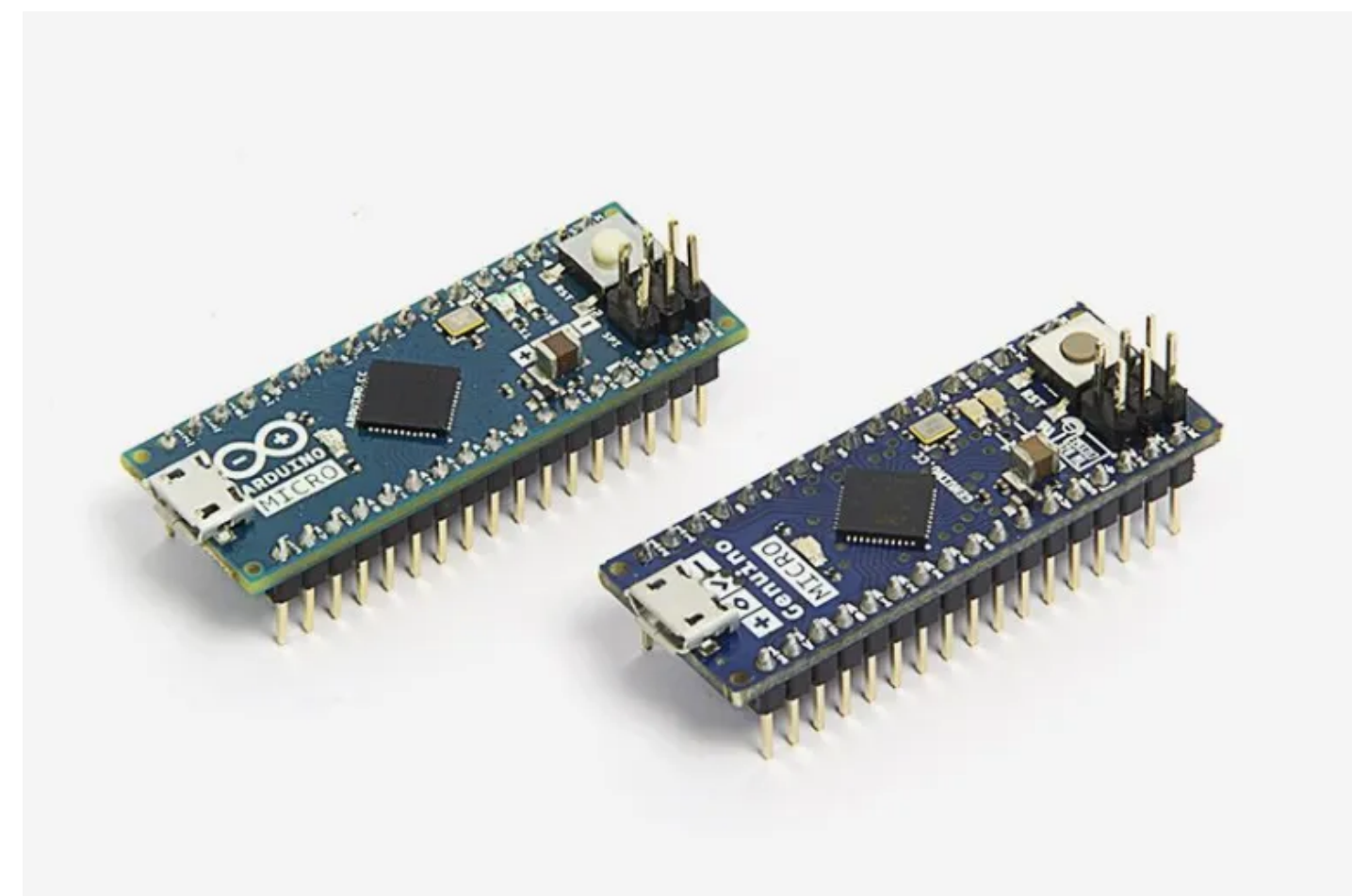
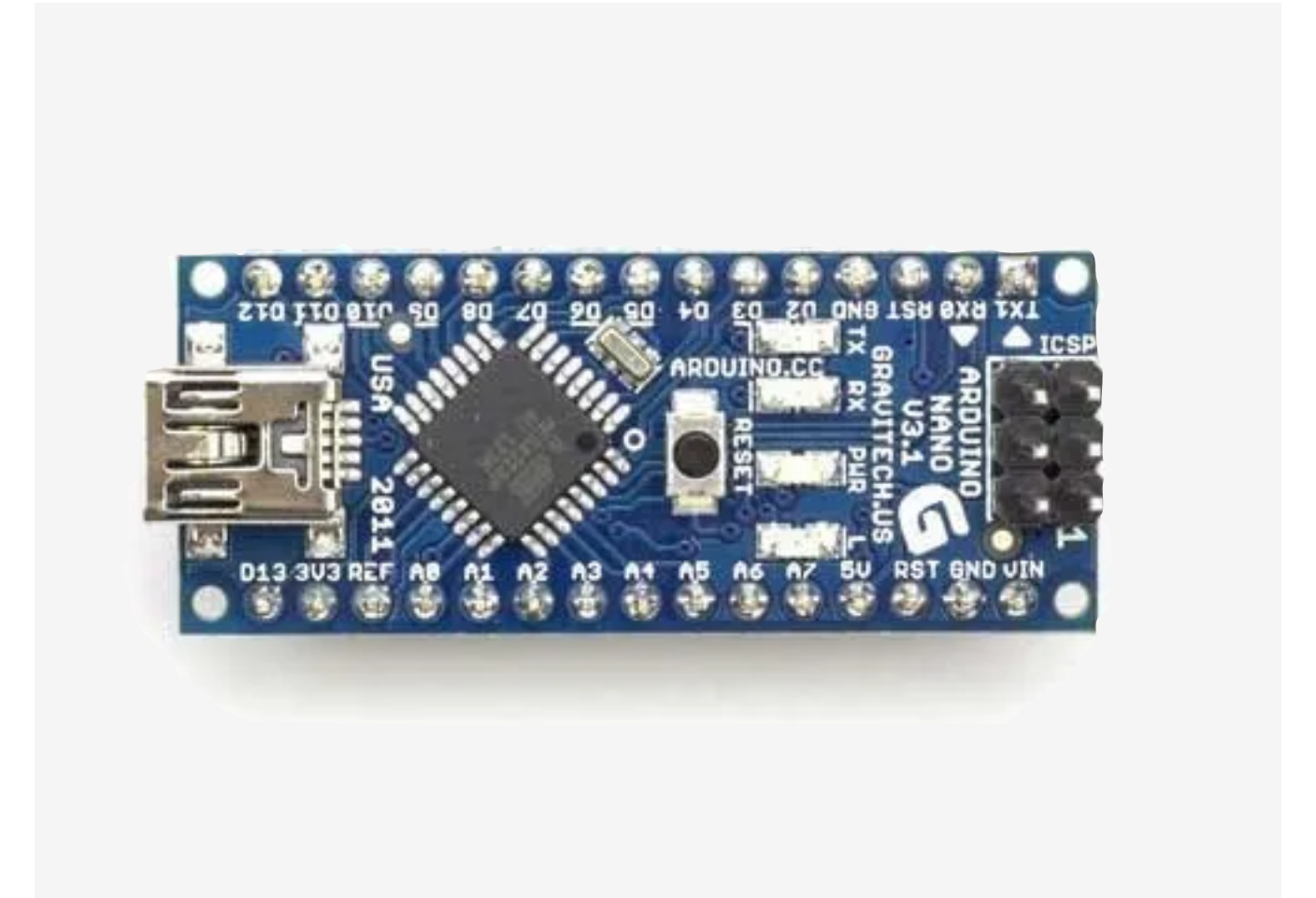
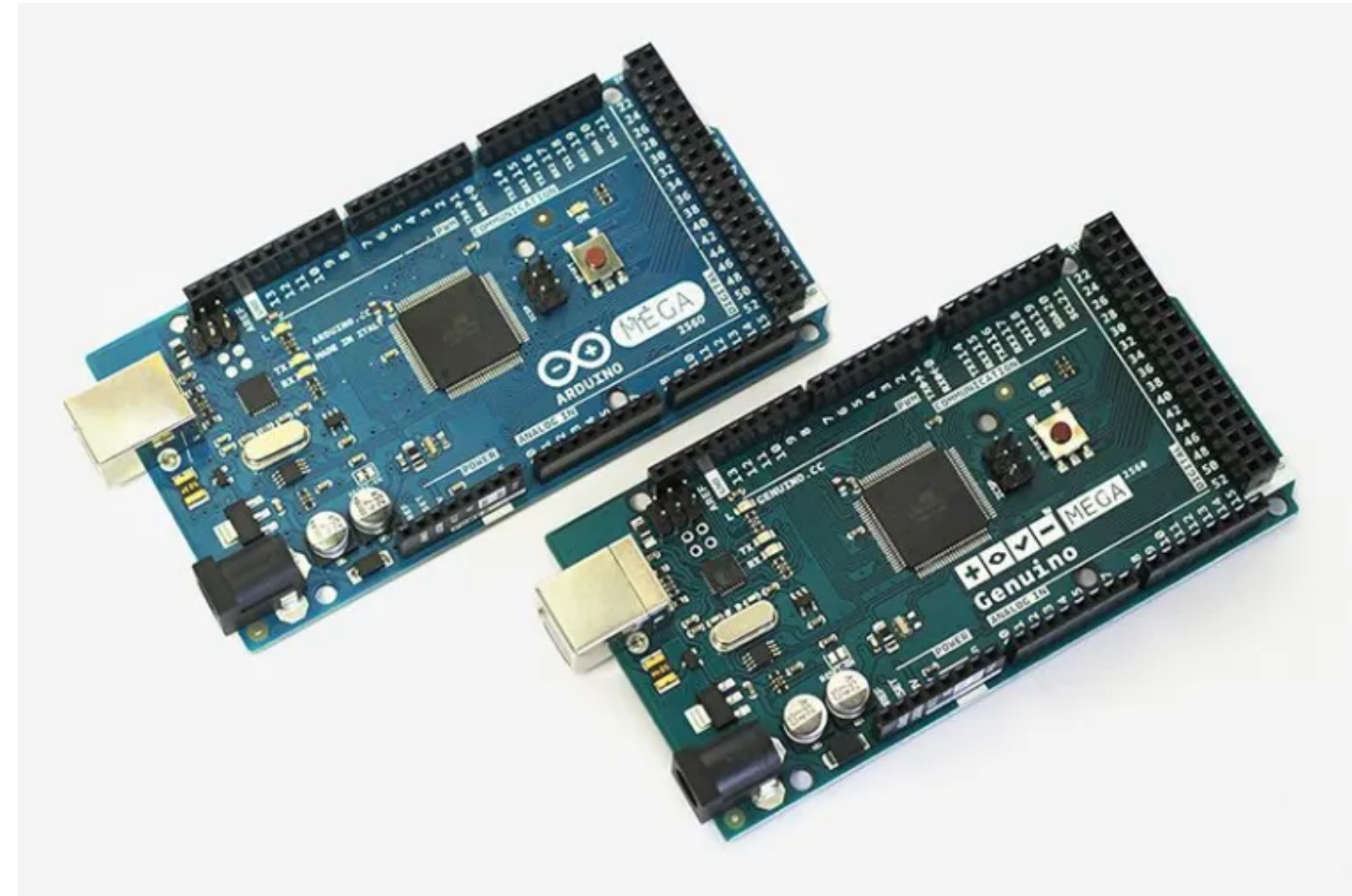
Labo 3 - Verano 2023

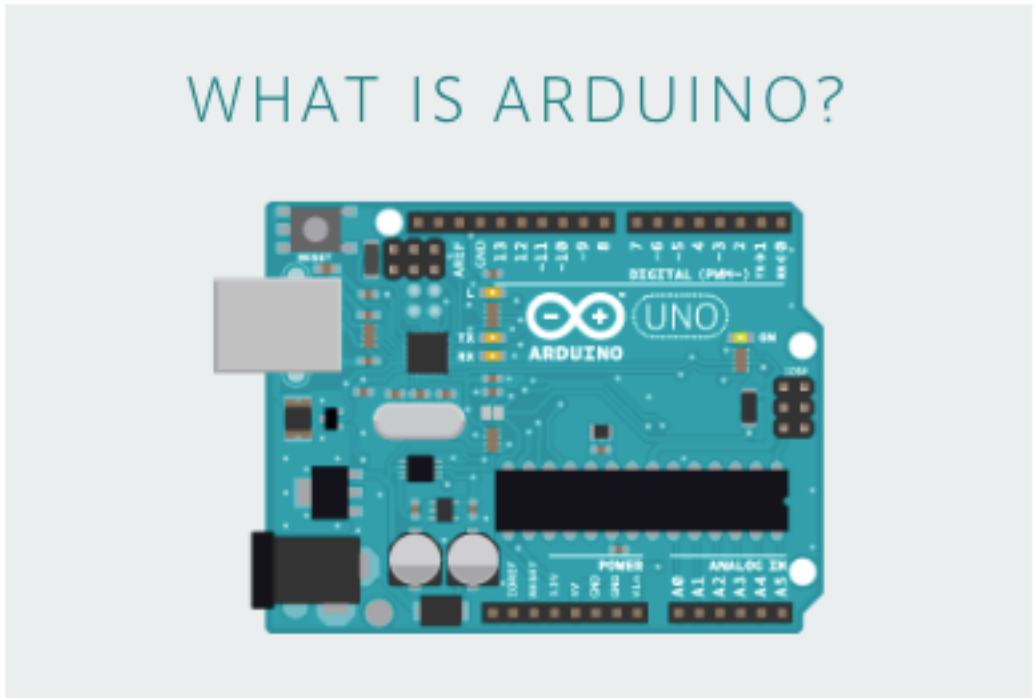
Arduino

Es la denominación de una familia de tarjetas



Arduino boards





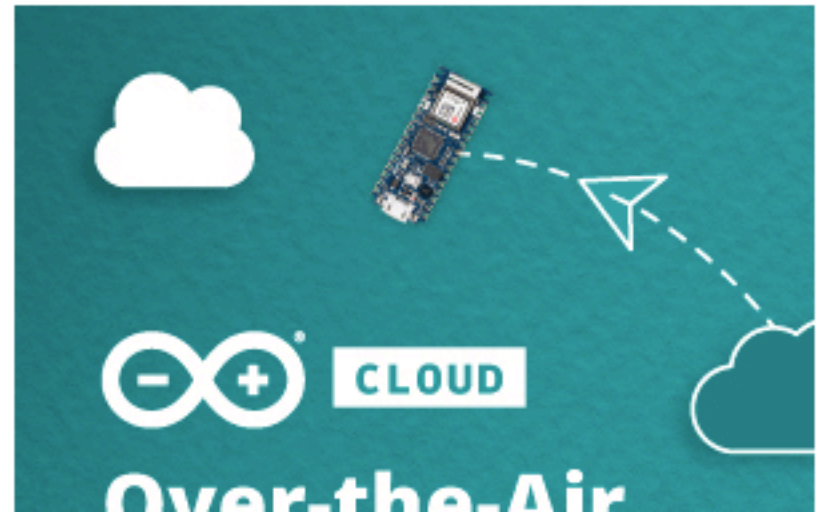
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CAREERS



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Nicla Voice

Just say the word!

arduino.cc/pro

Arduino PLC IDE

Bring IEC 61131-3 programming languages to Arduino

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BLOG

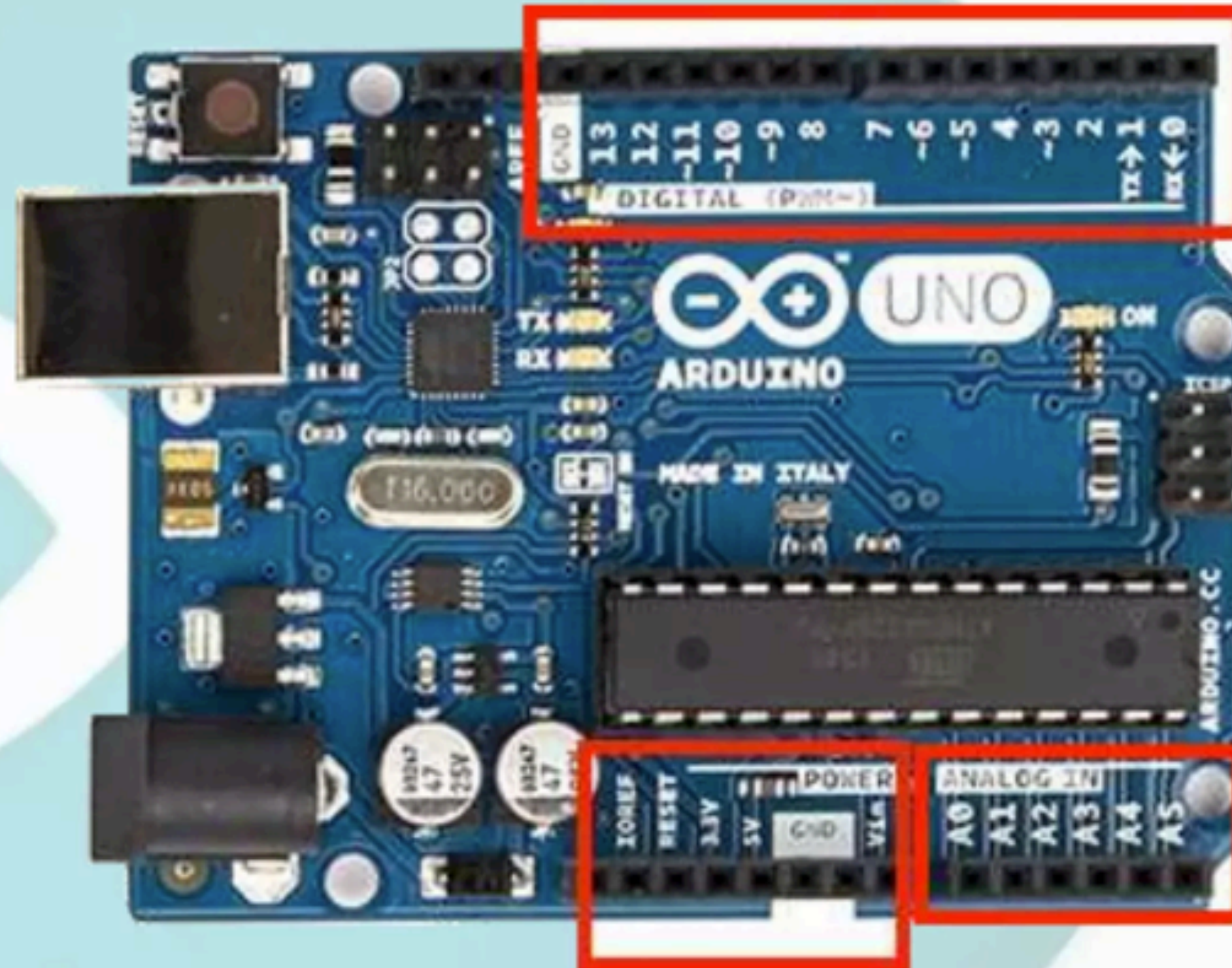
PORTENTA X8 IN ARDUINO IOT CLOUD

¿Qué es Arduino?

- Microcontrolador - **ATMega328**
- Frecuencia - **16 MHz**
- E/S digitales – **14** PWM - **6**
- E. analógicas - **6**

- Memoria Flash – **32K**

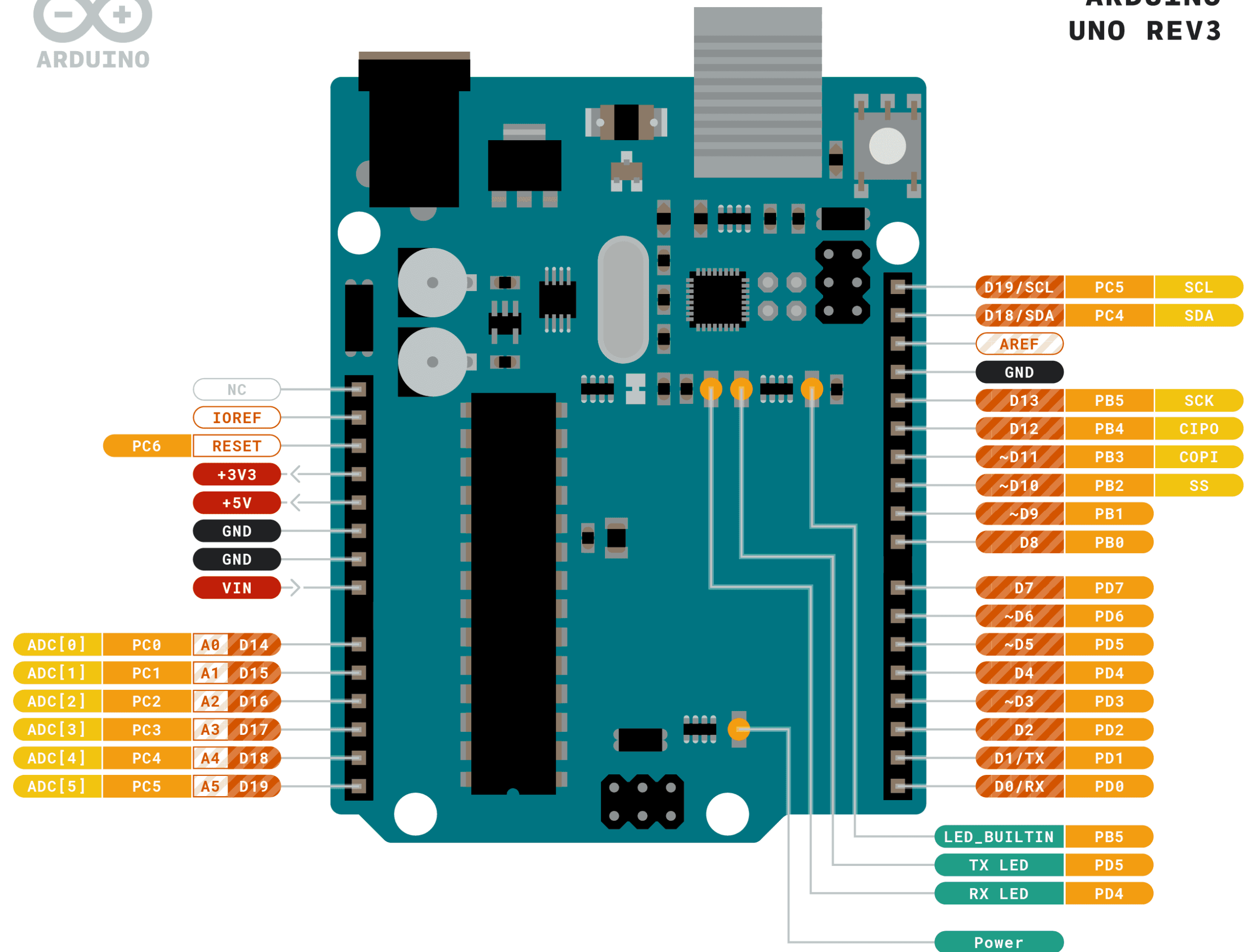
- EEPROM - **1K**



Arduino UNO R3



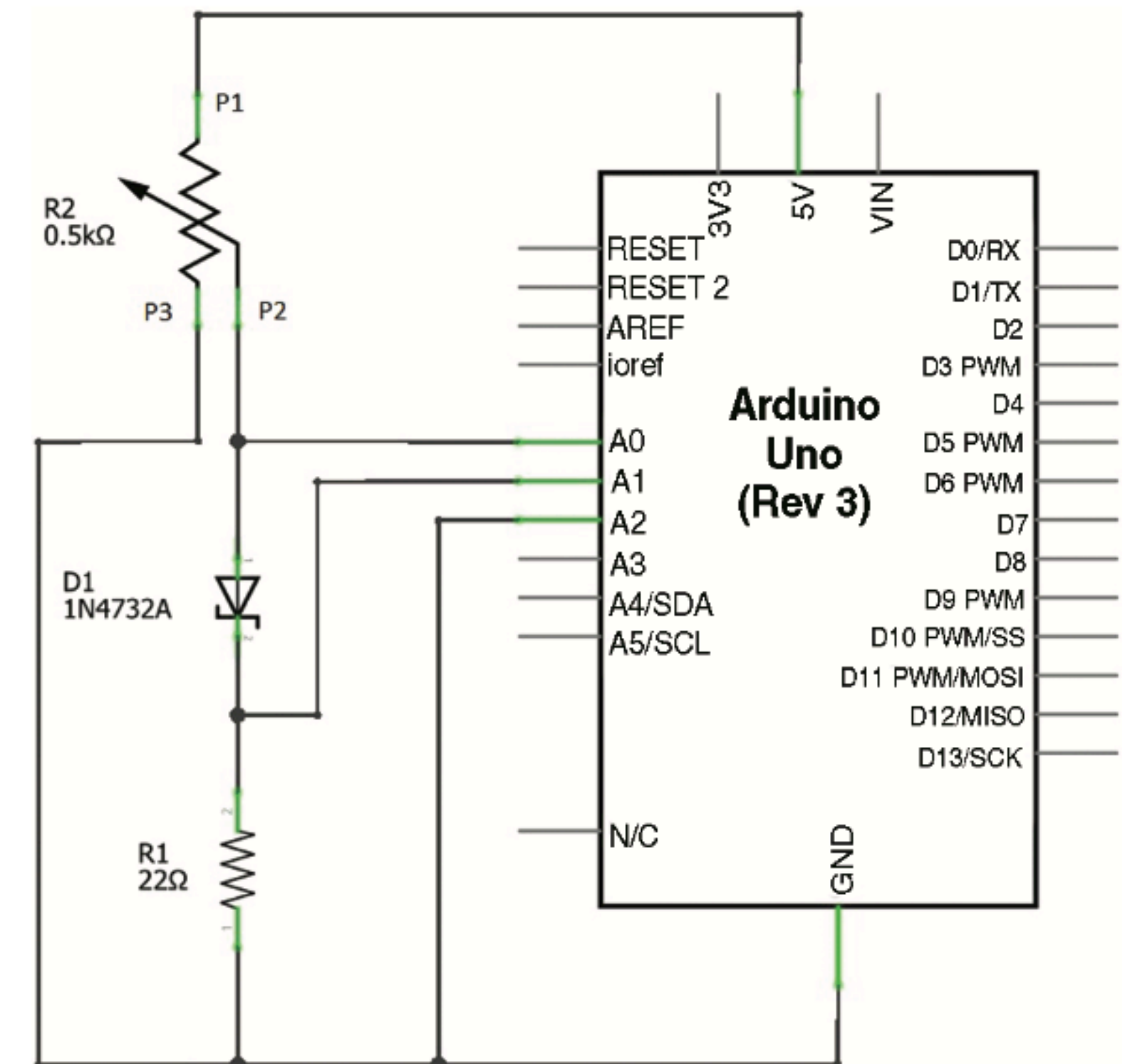
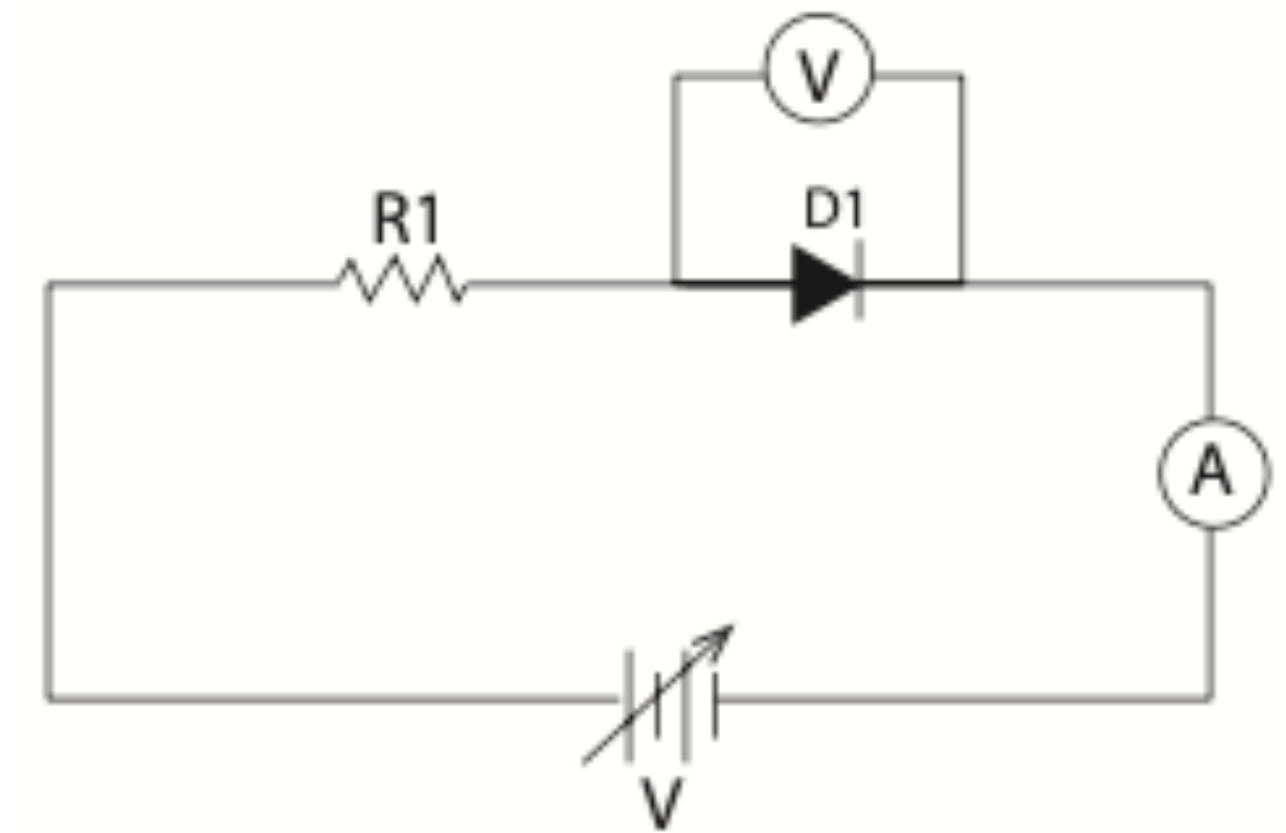
ARDUINO
UNO REV3



Objetivos para hoy; parte A

```
float R = 22.0;
void setup() {
  Serial.begin(9600);
}

void loop()
{
  int voltageA0 = analogRead(0);
  int voltageA1 = analogRead(1);
  int voltageA2 = analogRead(2);
  float voltageDiode = ((float)voltageA0 - (float)voltageA1) * 5.0 / 1023.0;
  float voltageResistor = ((float)voltageA1 - (float)voltageA2) * 5.0 / 1023.0;
  float current = voltageResistor / R;
  Serial.print("DATA,");
  Serial.print(voltageDiode);
  Serial.print(",");
  Serial.println(current * 1000);
  delay(100);
}
```



```
float R = 22.0;
void setup() {
  Serial.begin(9600);
}

void loop()
{
  int voltageA0 = analogRead(0);
  int voltageA1 = analogRead(1);
  int voltageA2 = analogRead(2);
  float voltageDiode = ((float)voltageA0 - (float)voltageA1) * 5.0 / 1023.0;
  float voltageResistor = ((float)voltageA1 - (float)voltageA2) * 5.0 / 1023.0;
  float current = voltageResistor / R;
  Serial.print("DATA,");
  Serial.print(voltageDiode);
  Serial.print(",");
  Serial.println(current * 1000);
  delay(100);
}
```


Objetivos para hoy; parte B

