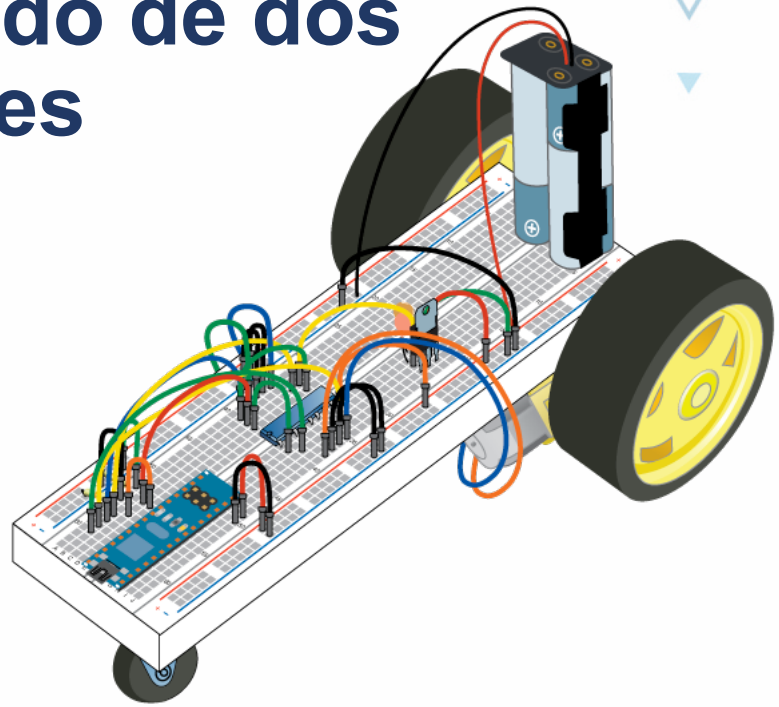
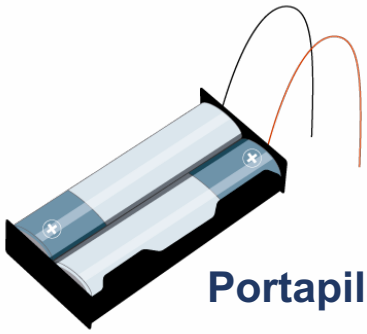
Electrónica junior

Práctica 17

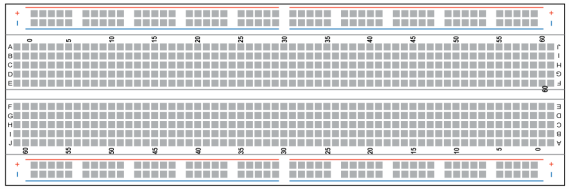
Vehículo robotizado de dos direcciones



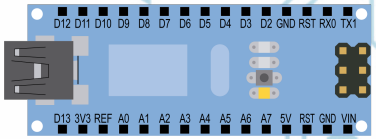
Materiales



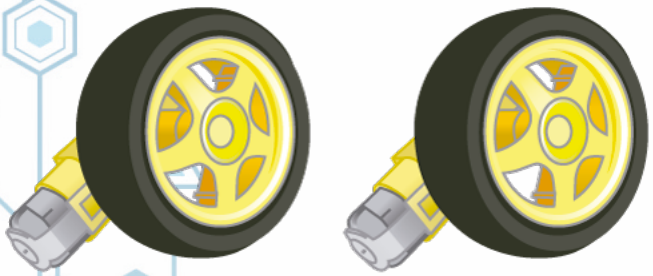
Portapilas



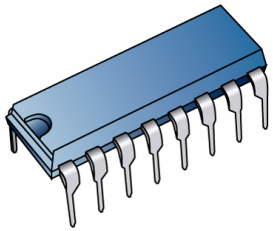
Protoboard



Tarjeta Arduino No. 1

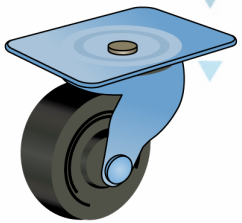


2 Motorreductores

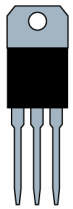


Driver de potencia
Tipo Puente H

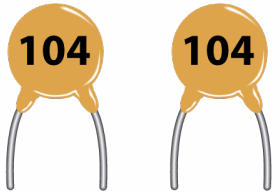
10 K



Rueda loca



Regulador
L7805CV



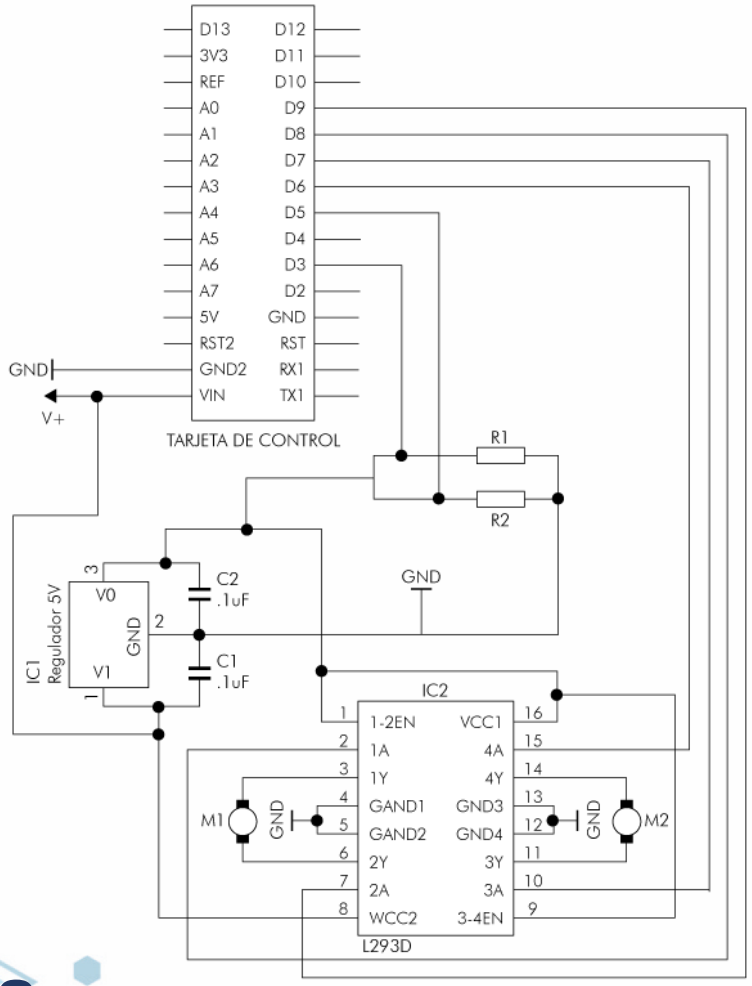
Capacitores 104

Cables de distintos
tamaños

4 minutos

Electrónica Junior

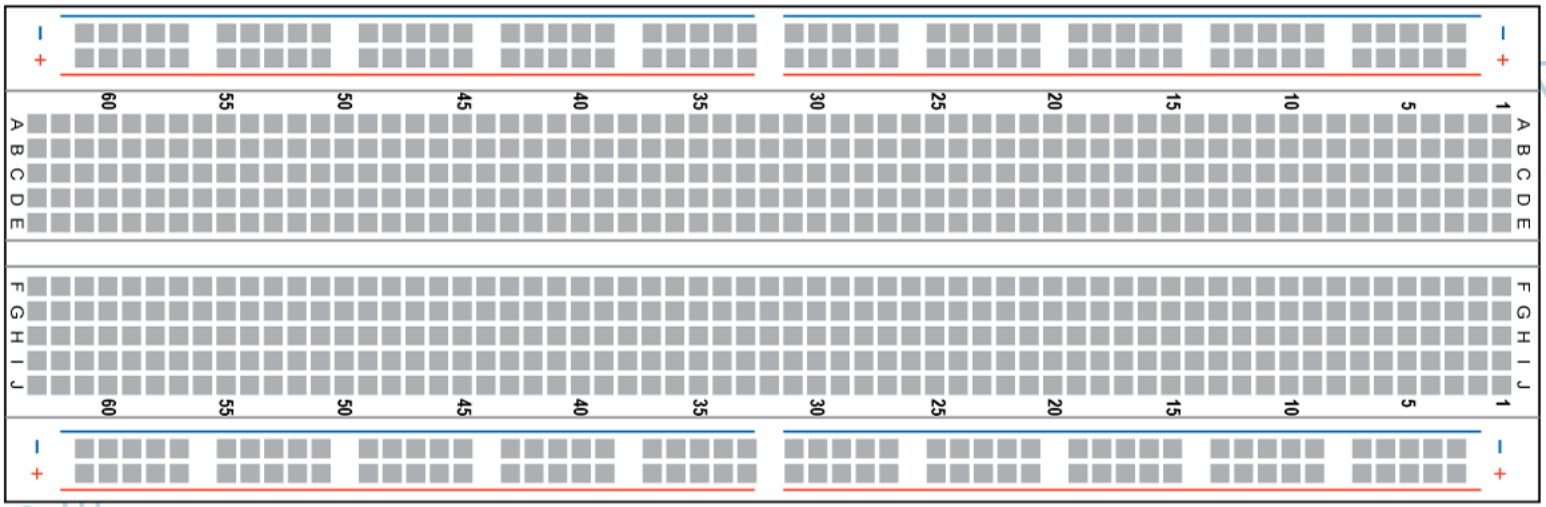
Diagrama esquemático



2 minutos

Electrónica Junior

Iniciamos con la protoboard

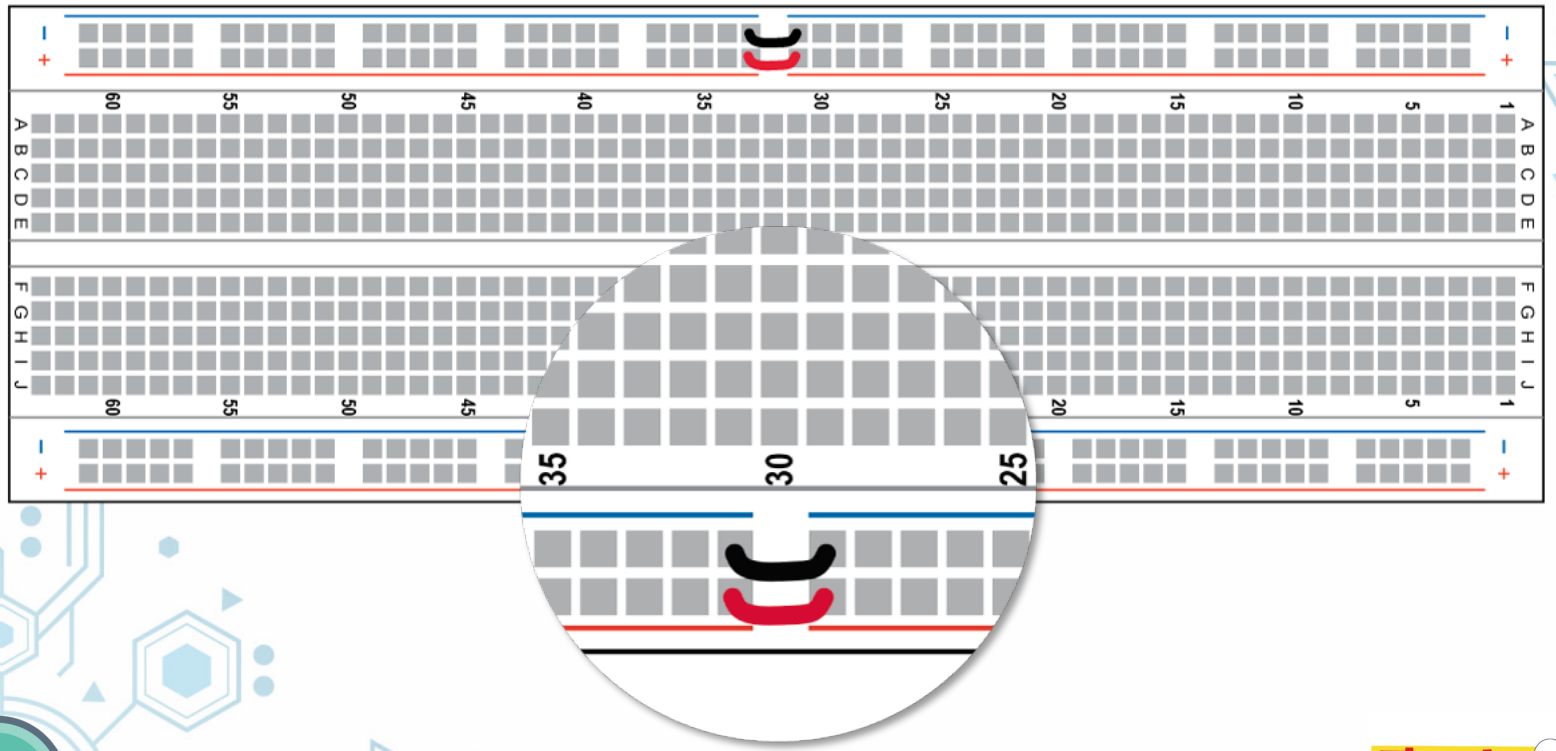


2 minutos

Electrónica Junior

Coloca puentes en las líneas de voltaje de ambos extremos

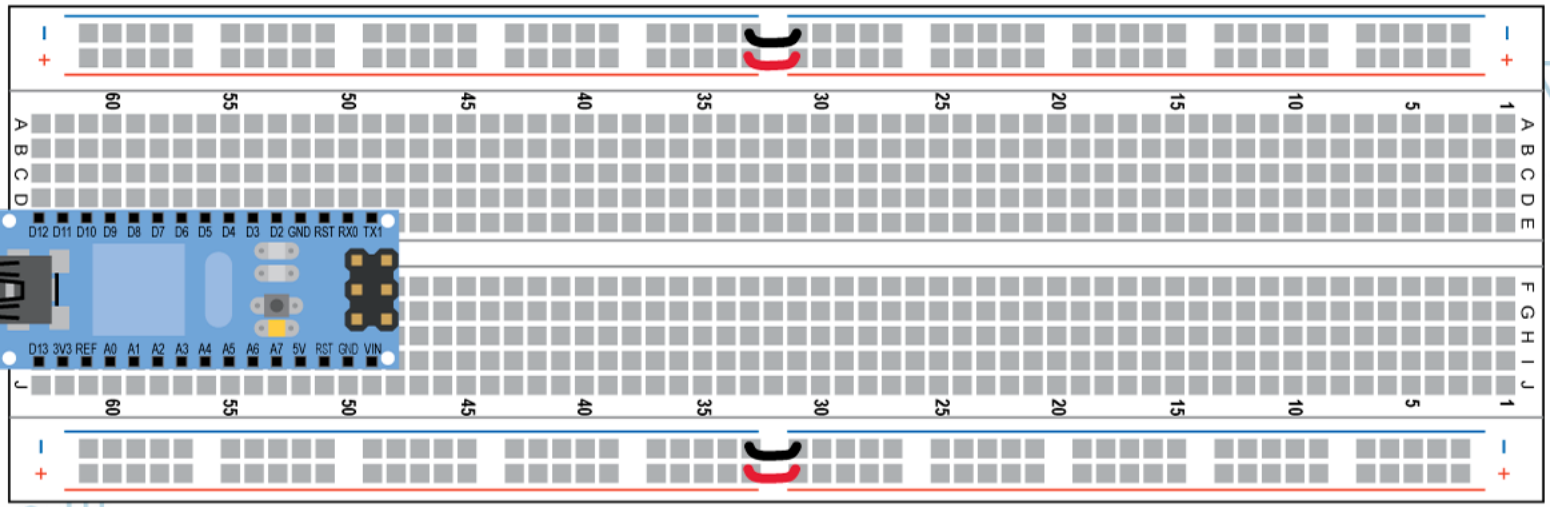
(si tu protoboard es continua, omite este paso)



2 minutos

Electrónica Junior

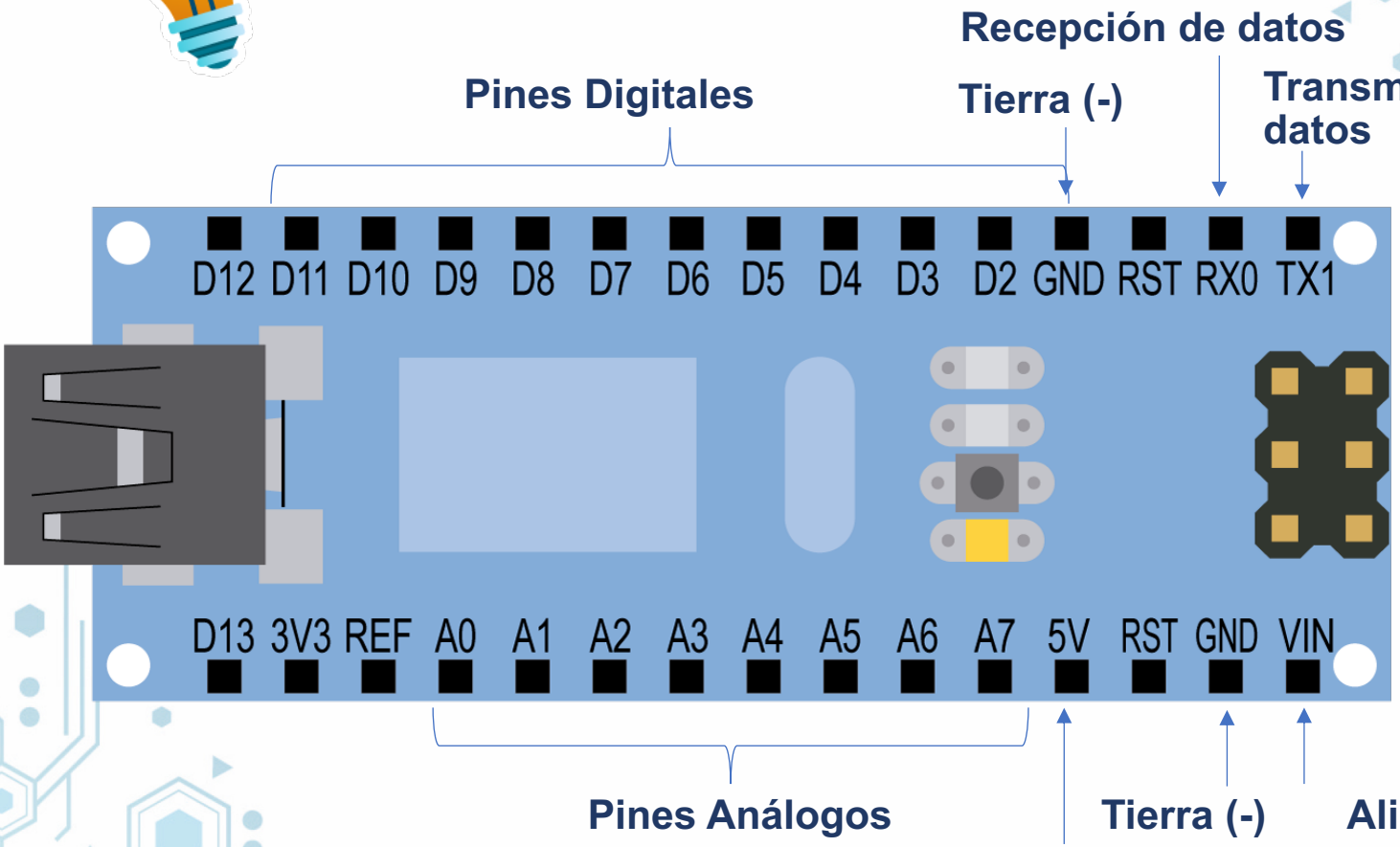
Coloca la Tarjeta Arduino



2 minutos

Electrónica Junior

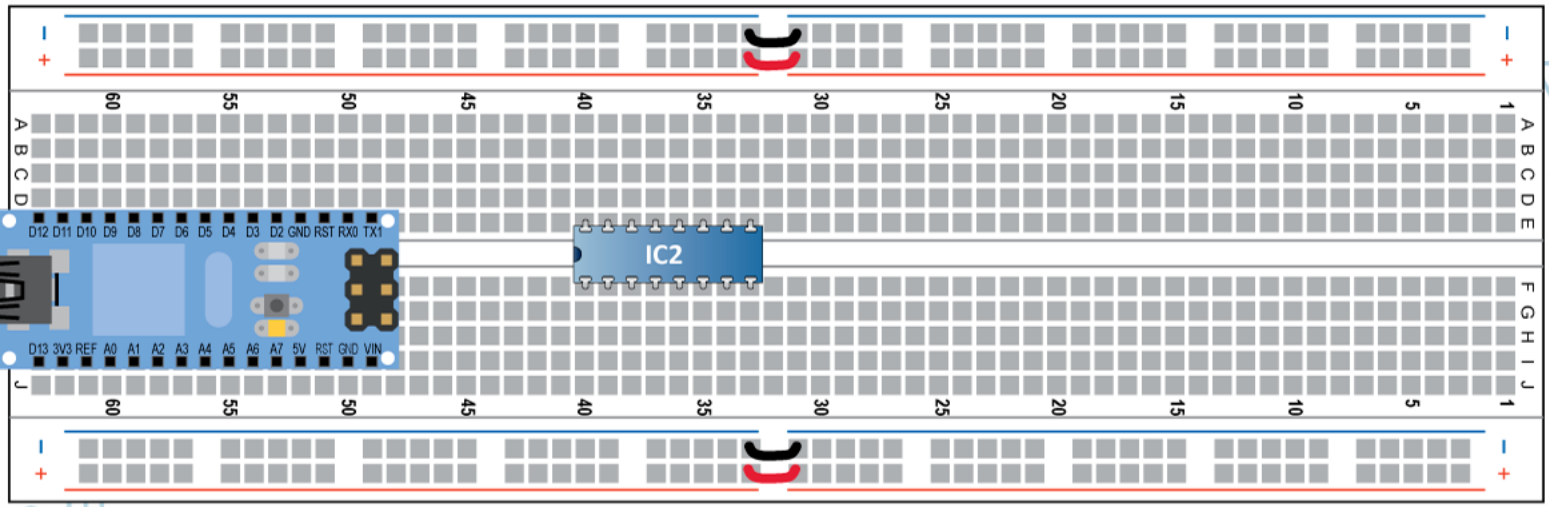
Identifica las terminales



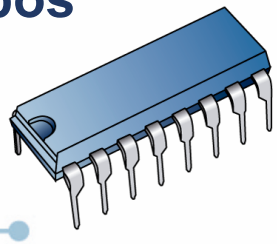
3 minutos

Electrónica Junior

Conecta el Puente H



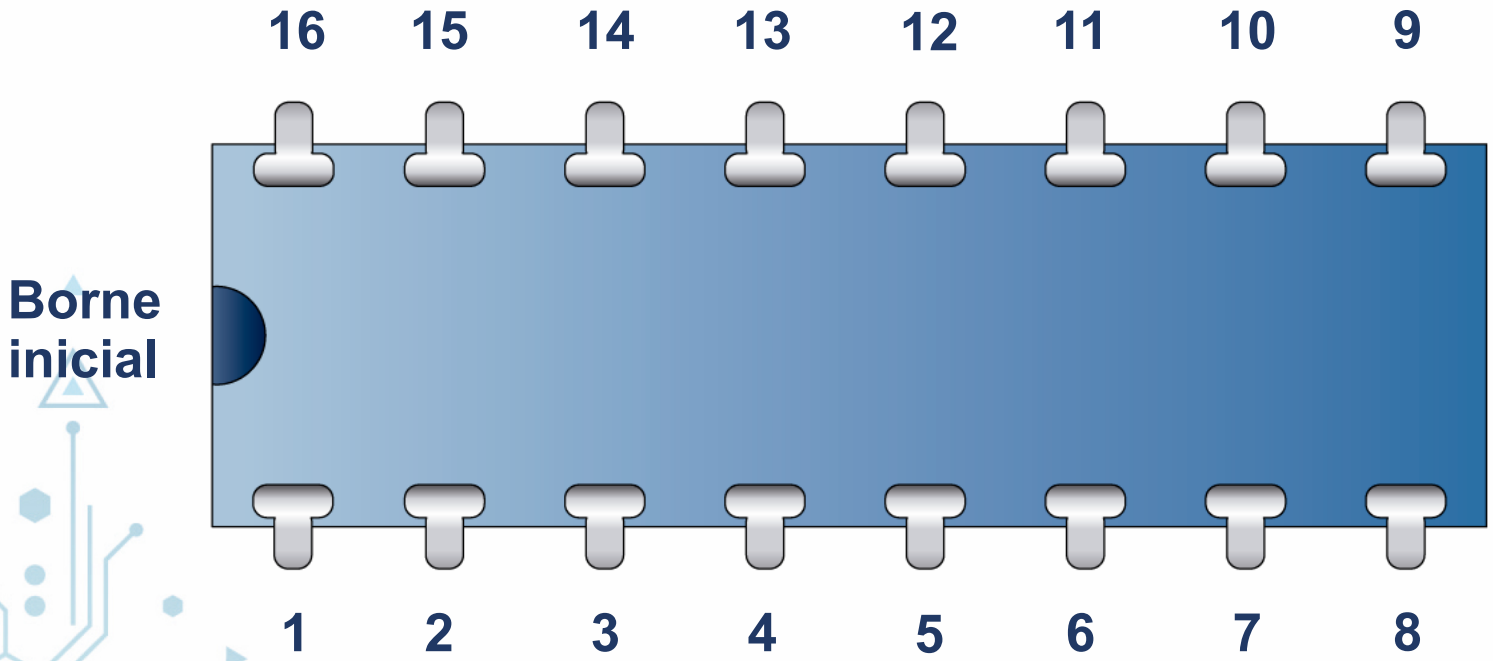
El Puente H se usa para permitir a un motor eléctrico girar en ambos sentidos, avanzar y retroceder



3 minutos

Electrónica Junior

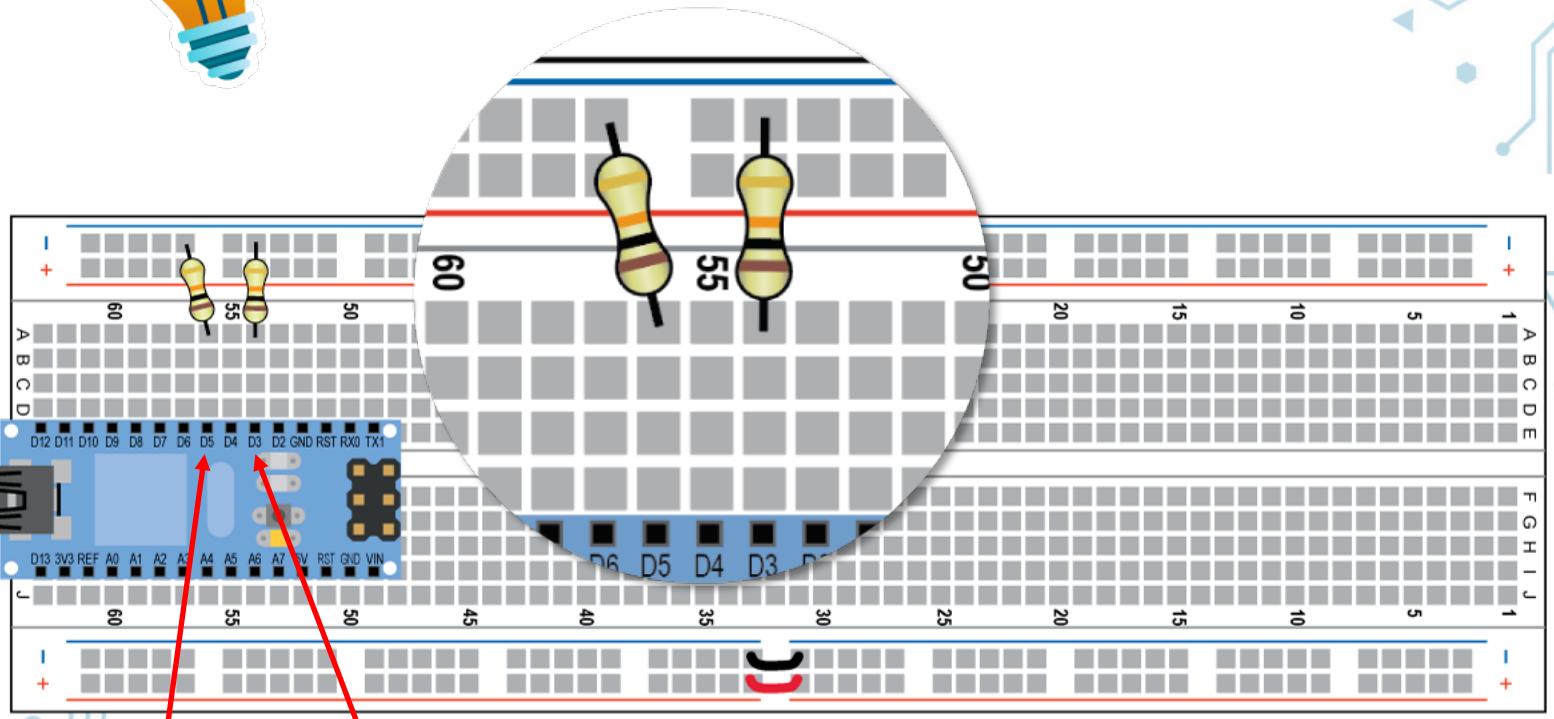
Terminales del Puente H



2 minutos

Electrónica Junior

Conecta las resistencias

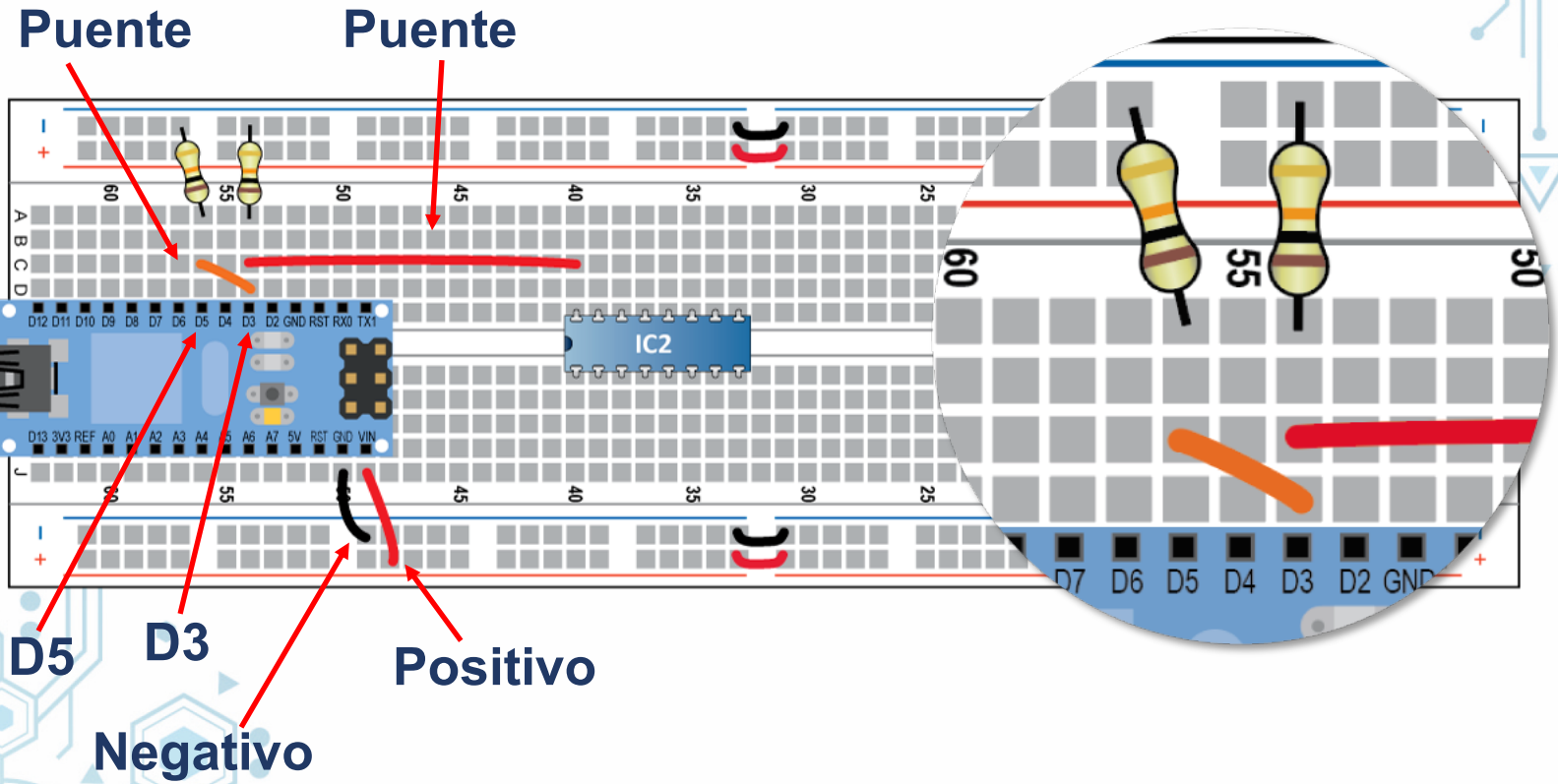


Resistencia 10 K
Café, negro, naranja, dorado

3 minutos

Electrónica Junior

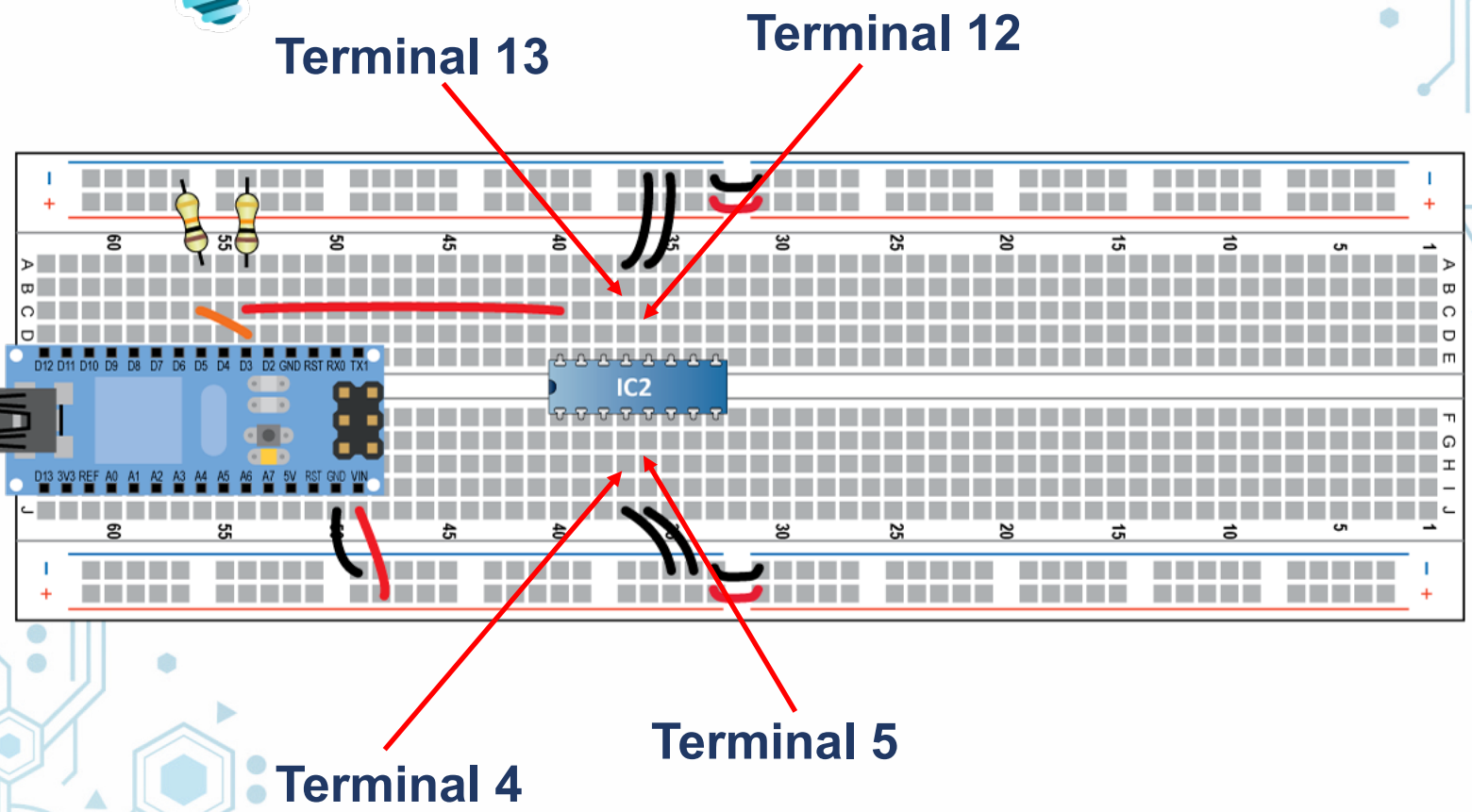
Conecta la alimentación de la tarjeta arduino



3 minutos

Electrónica Junior

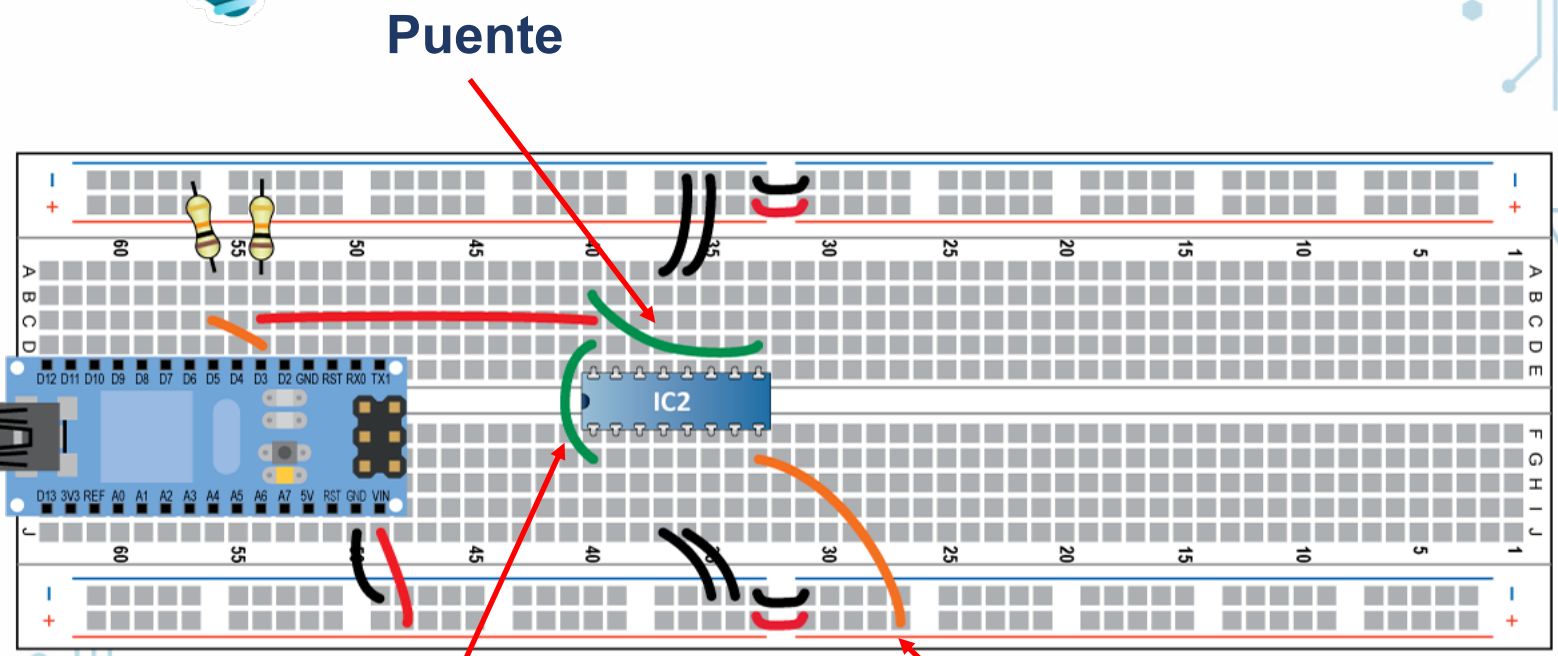
Conecta los puentes a negativo



3 minutos

Electrónica Junior

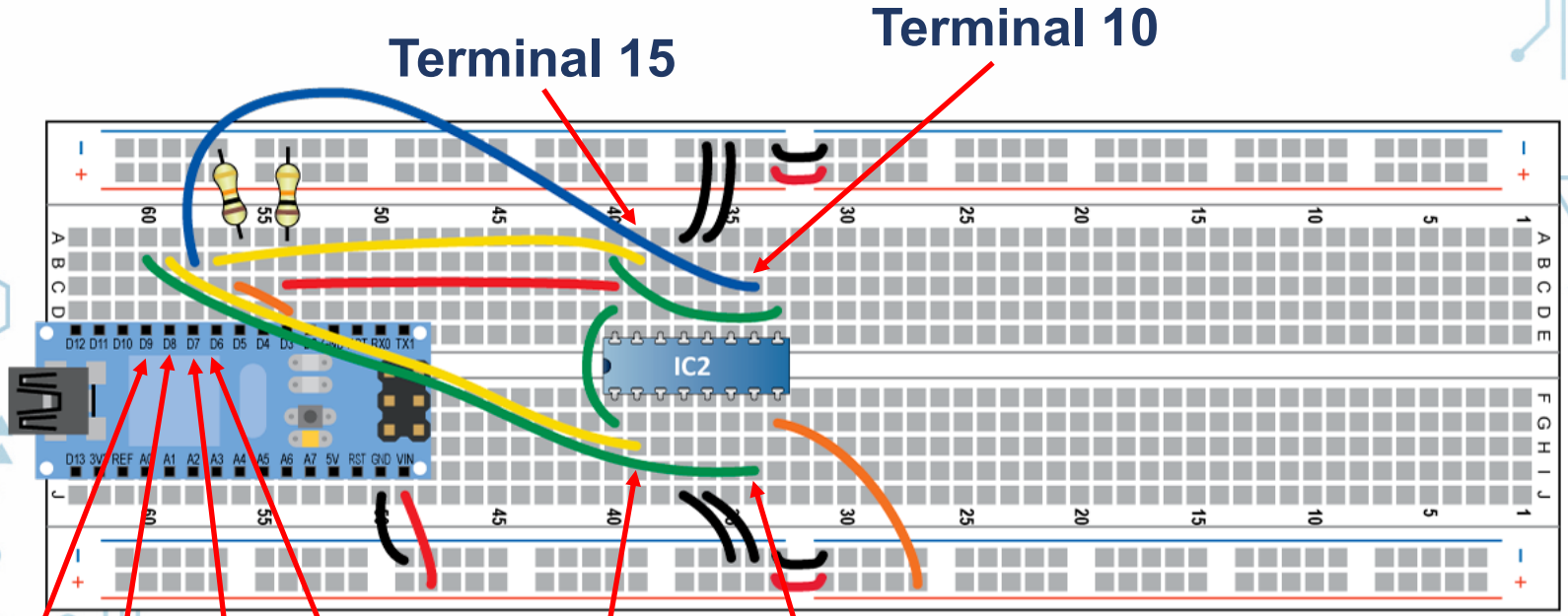
Conectamos los puentes



2 minutos

Electrónica Junior

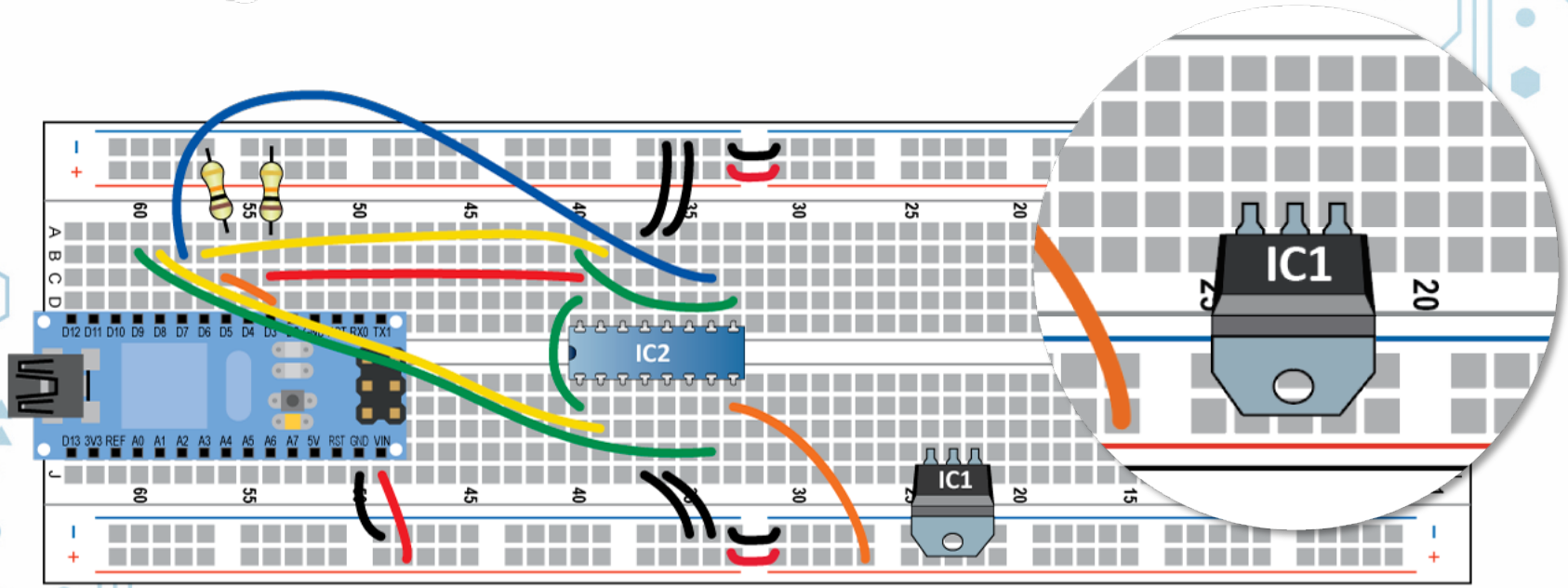
Conectamos los puentes de la tarjeta Arduino al Puente H

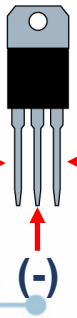


2 minutos

Electrónica Junior

Conectamos el regulador L7805CV

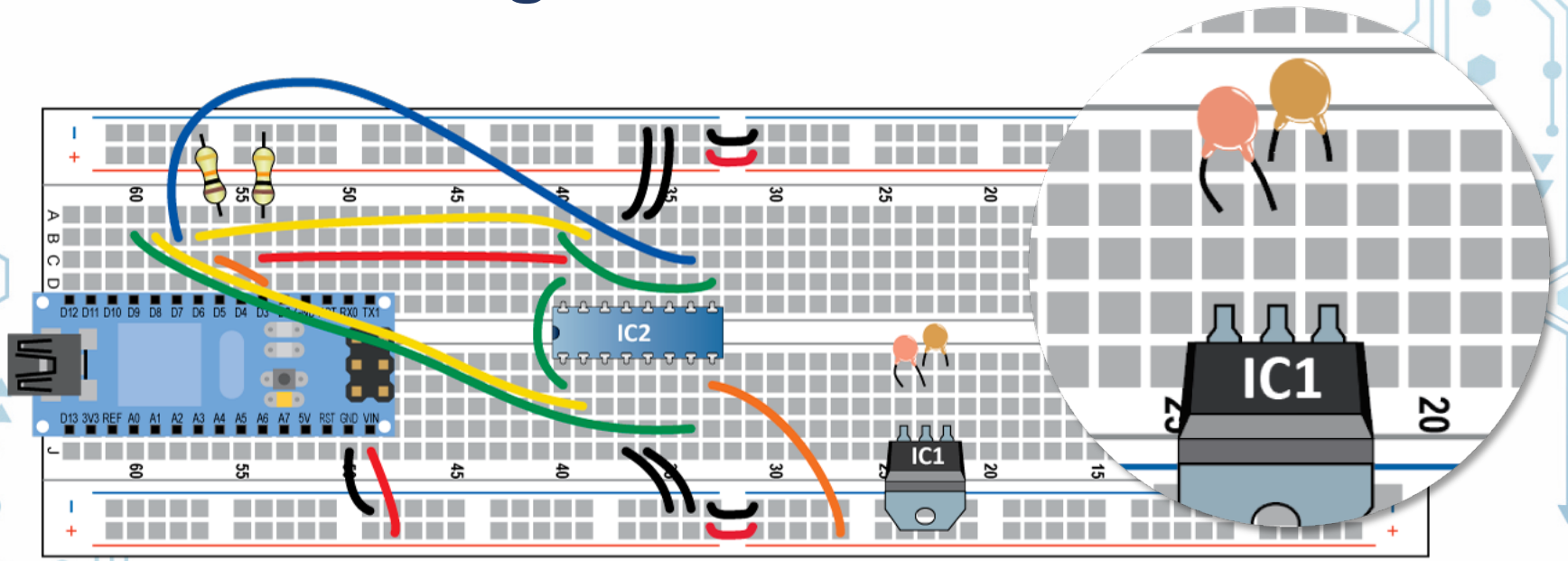




2 minutos

Electrónica Junior

Conecta los 2 capacitores cerámicos, en las terminales del regulador

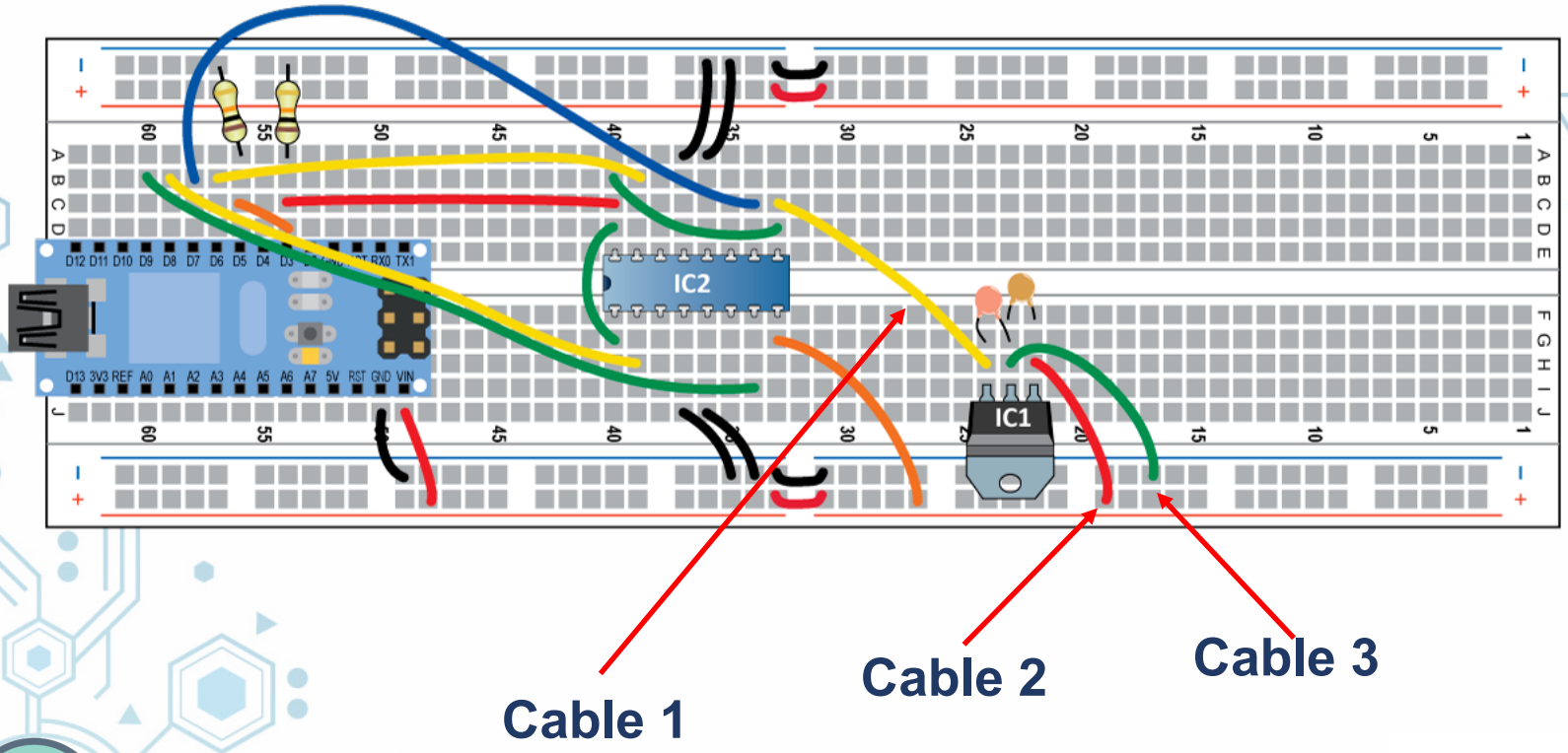


Mejora la estabilidad del voltaje del circuito

4 minutos

Electrónica Junior

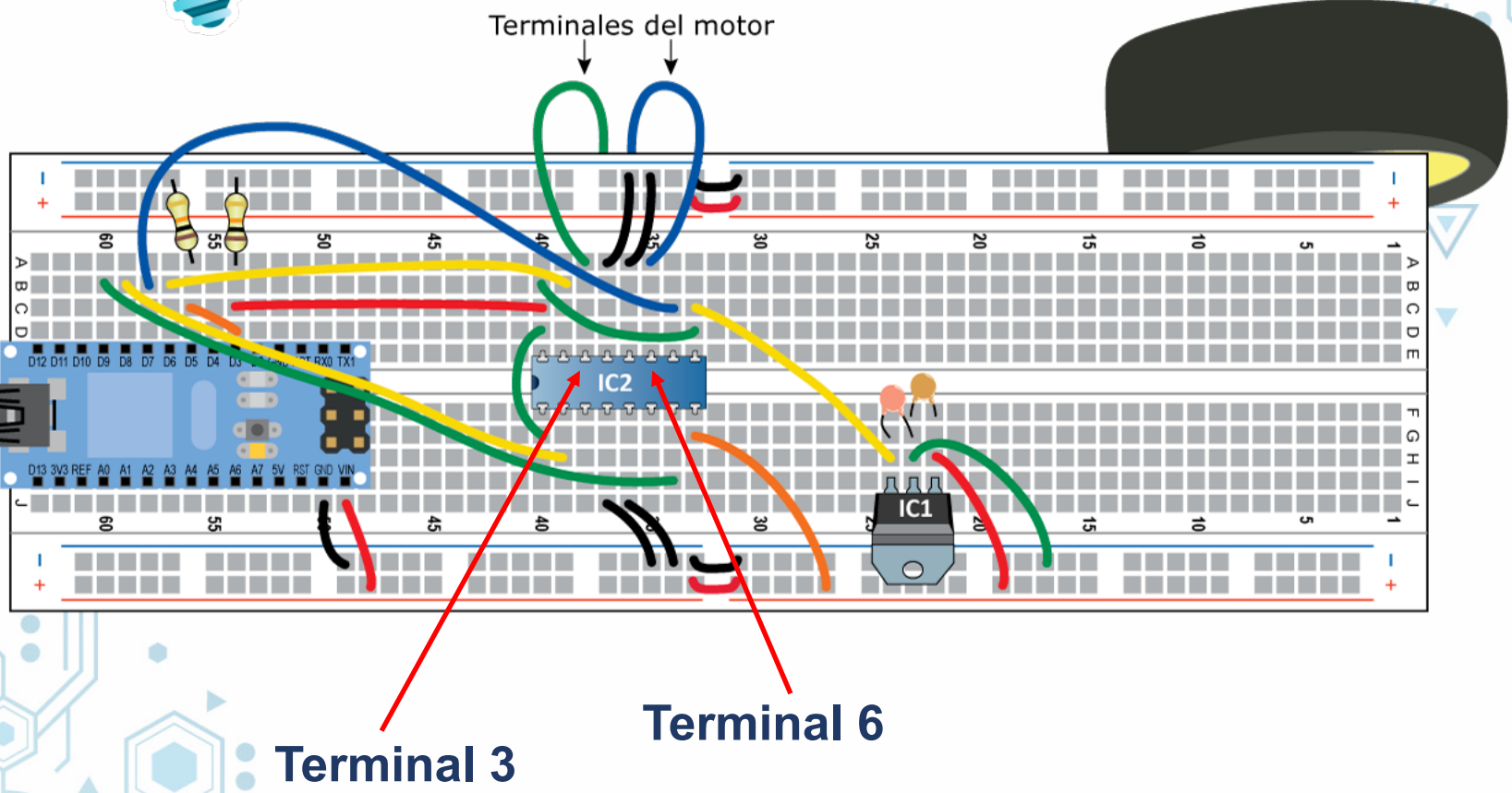
Conecta los 3 cables de alimentación del regulador



3 minutos

Electrónica Junior

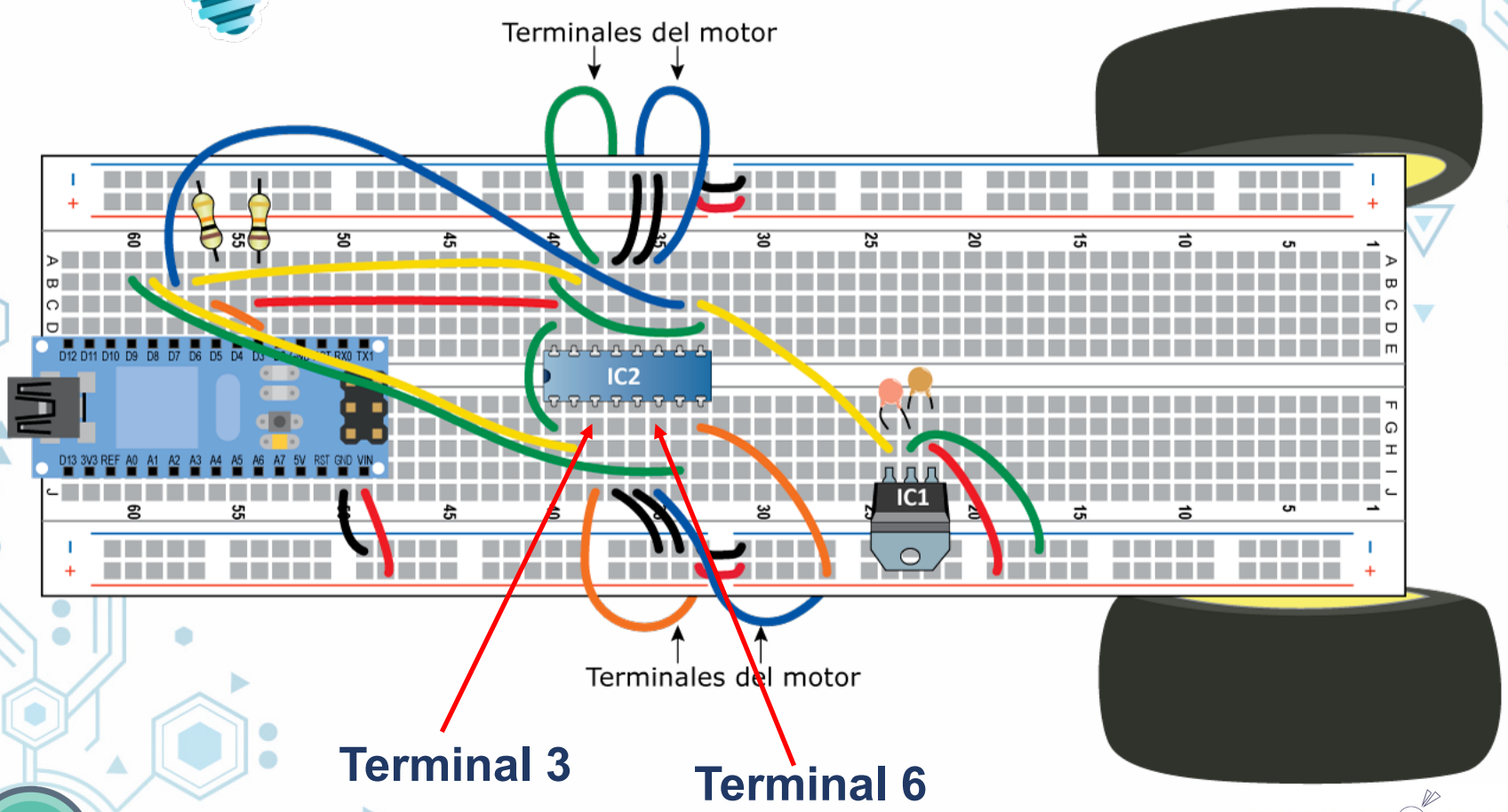
Conectamos el primer motoreductor



2 minutos

Electrónica Junior

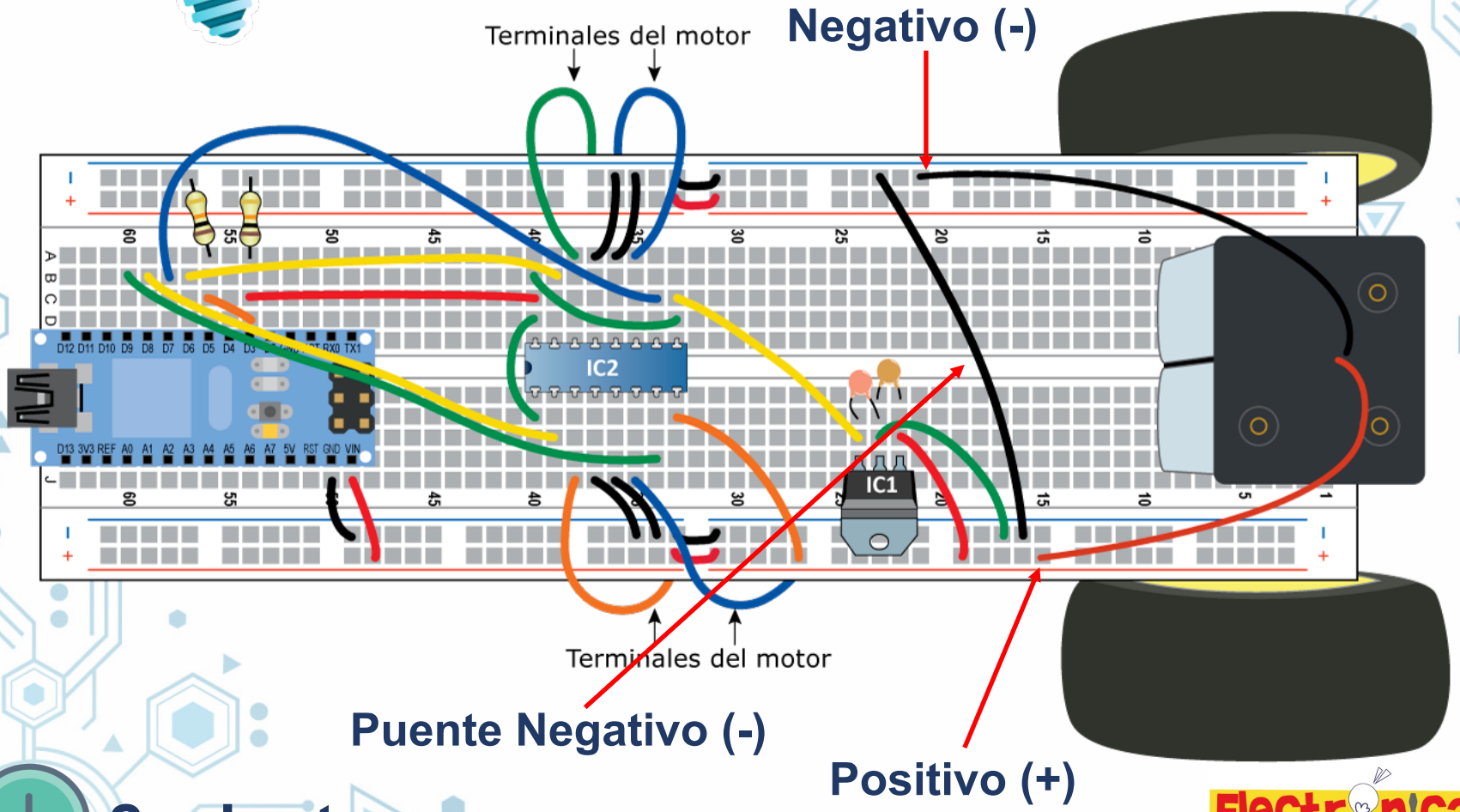
Conectamos el segundo motoreductor



2 minutos

Electrónica Junior

Conecta el portapilas y el puente a negativo



2 minuto

Electrónica Junior