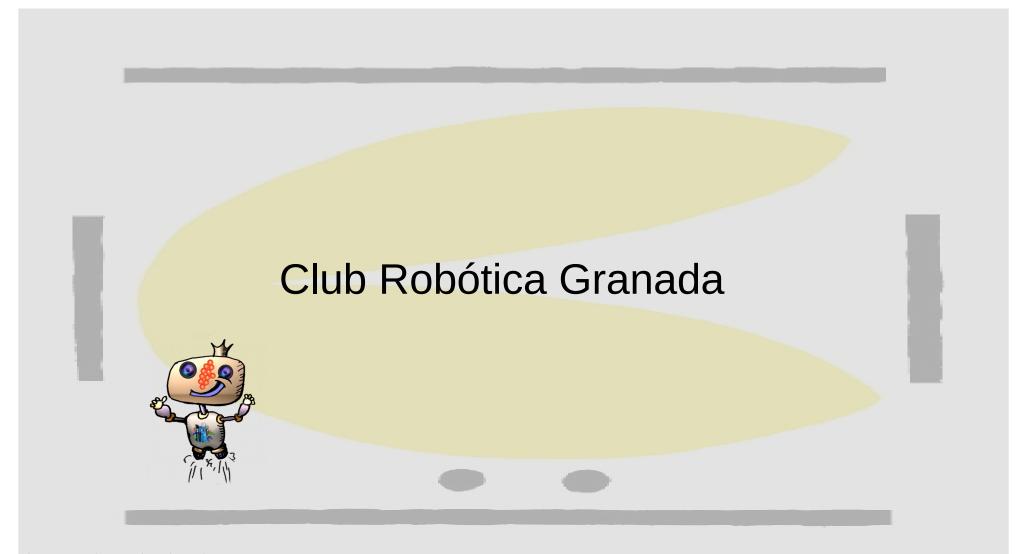
Taller Escornabot DIY

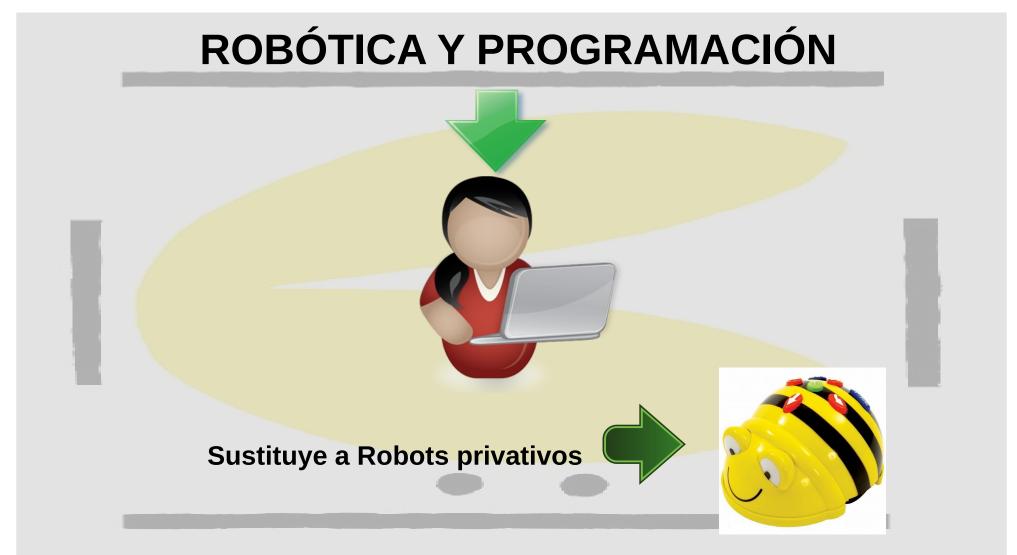


¿Escorna que ...?



lunes, 4 de noviembre de 2019

Objetivo



Características

- Lo haces tú
- Hardware abierto y Software libre
- Asequible
- Bien documentado

¿Quién?

Equipo de desarrollo (Github

https://github.com/orgs/escornabot/people//

Grupo de google)



Comunidad (Grupo de google / Telegram)

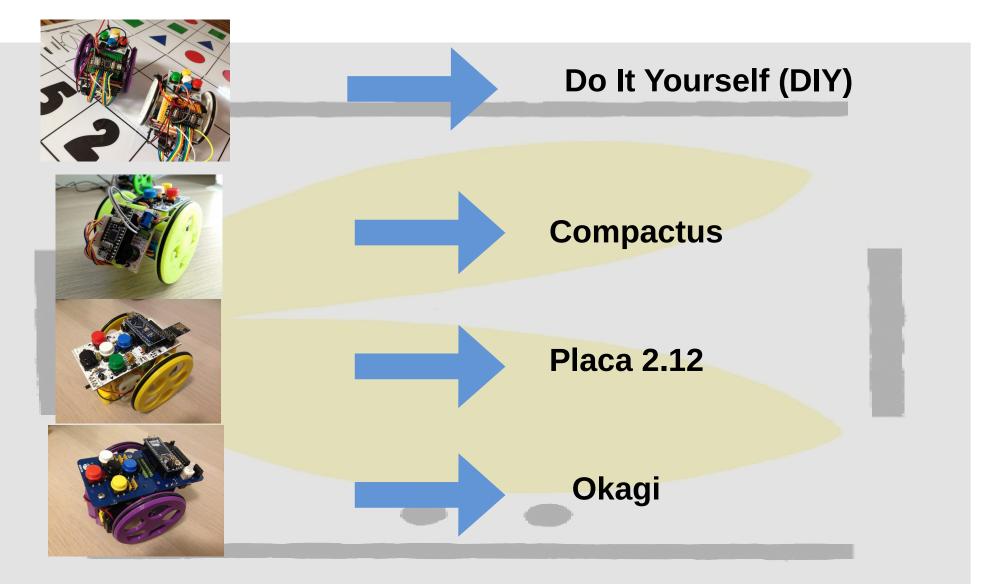
iii Escornafan!!!

Pablo Rubio

(https://pablorubma.cc/)



Versiones



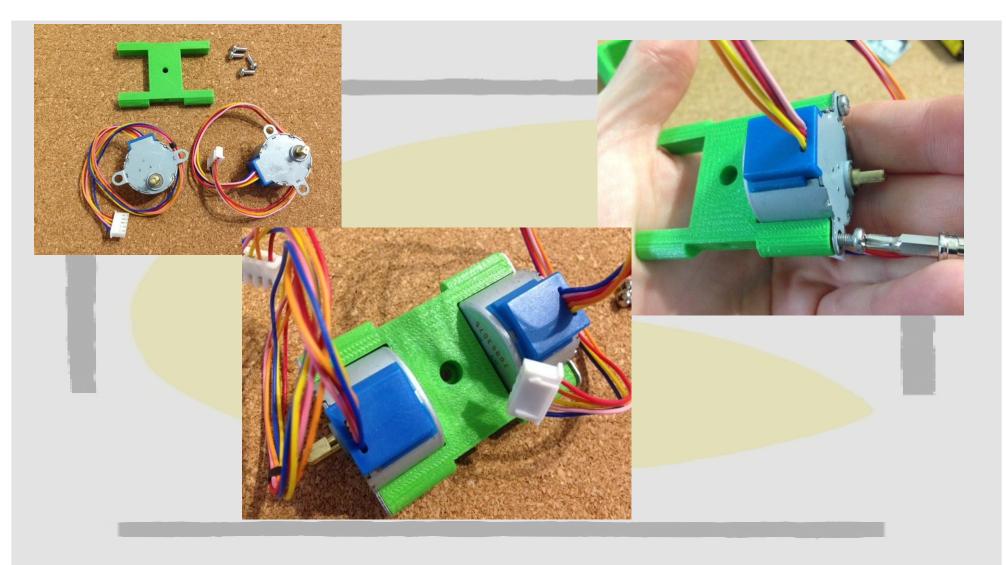
lunes, 4 de noviembre de 2019

Funcionamiento y programación

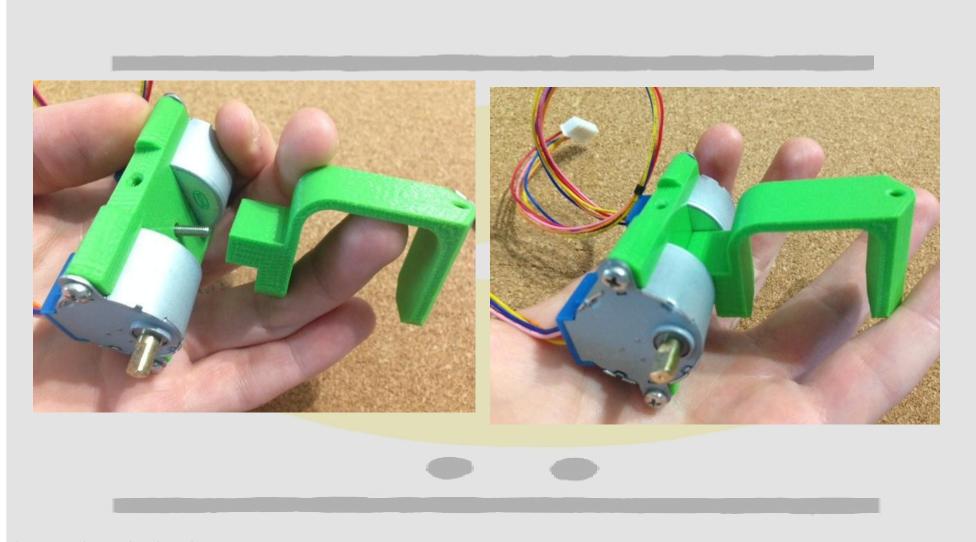
- Introduce Firmware y se maneja con botonera (modo clásico)
- Se puede programar con librería para arduino e incluso poner sensores extras



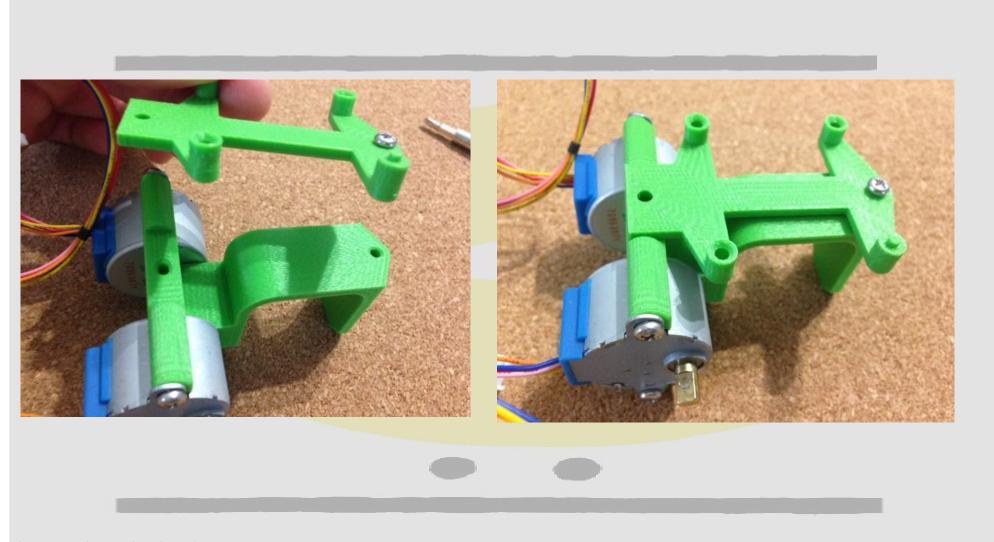
Motores



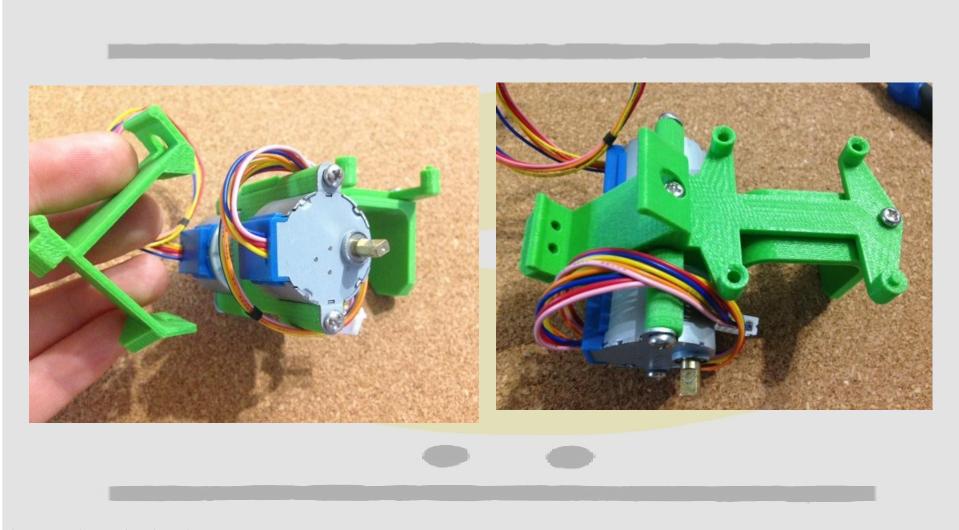
Soporte portapilas



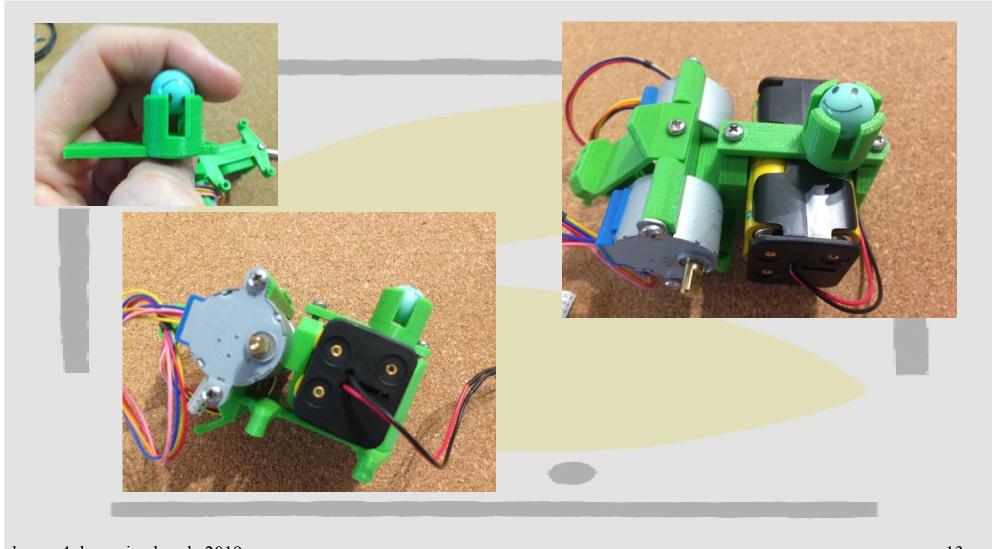
Soporte botonera



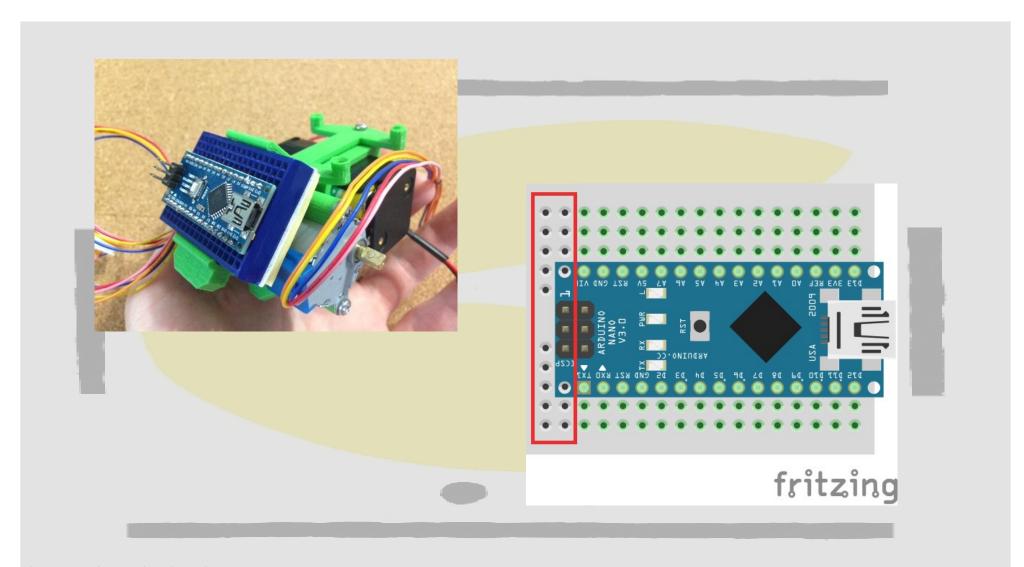
Soporte board



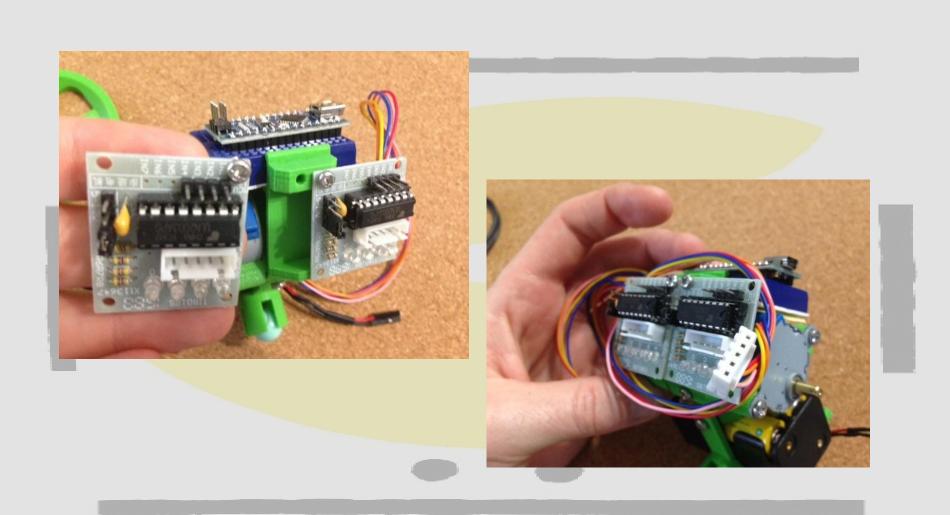
Portapilas y bola



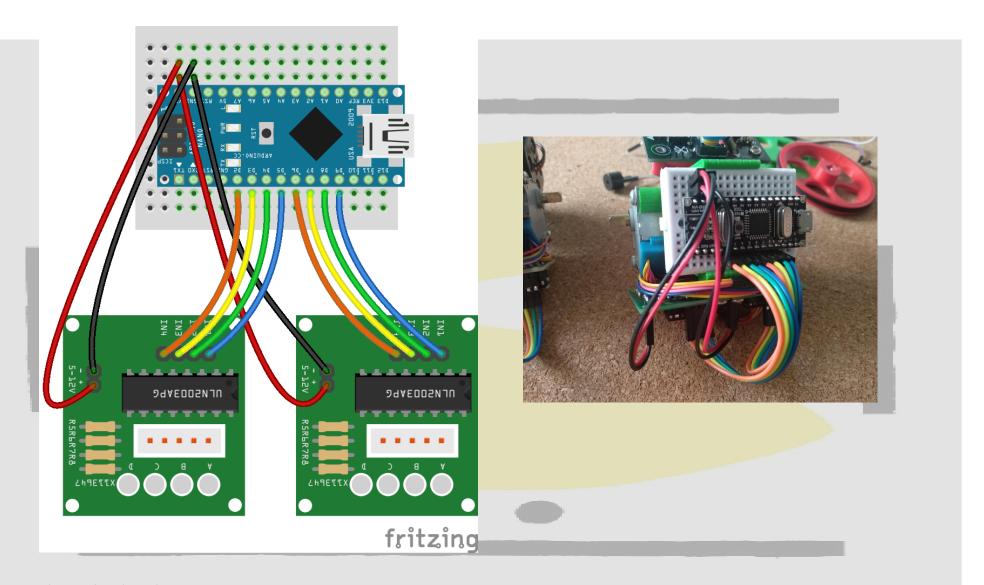
Board



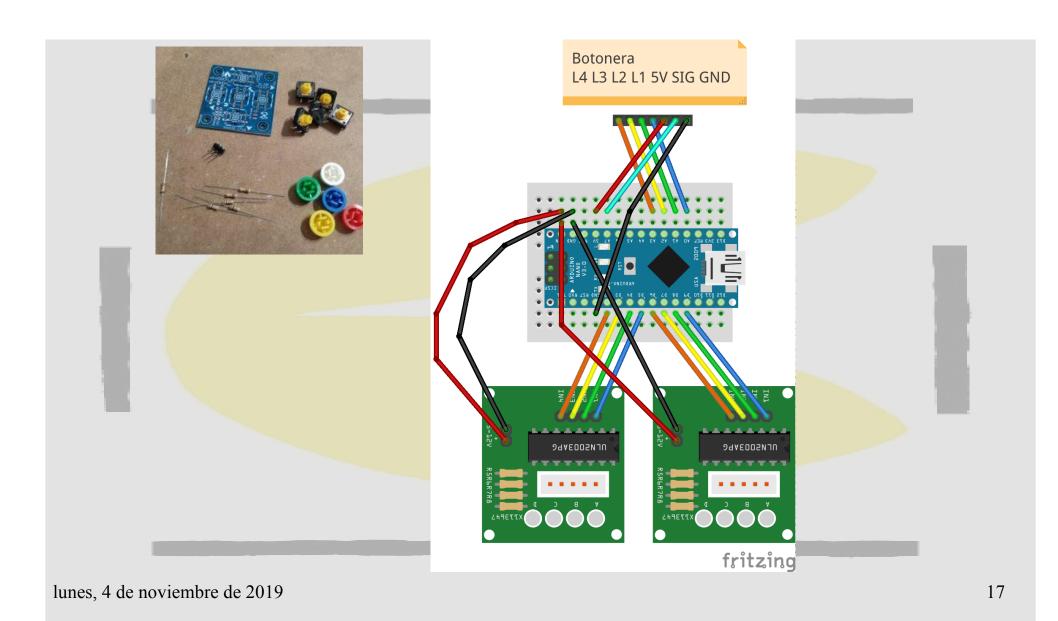
Drivers de motores



Conexionado drivers



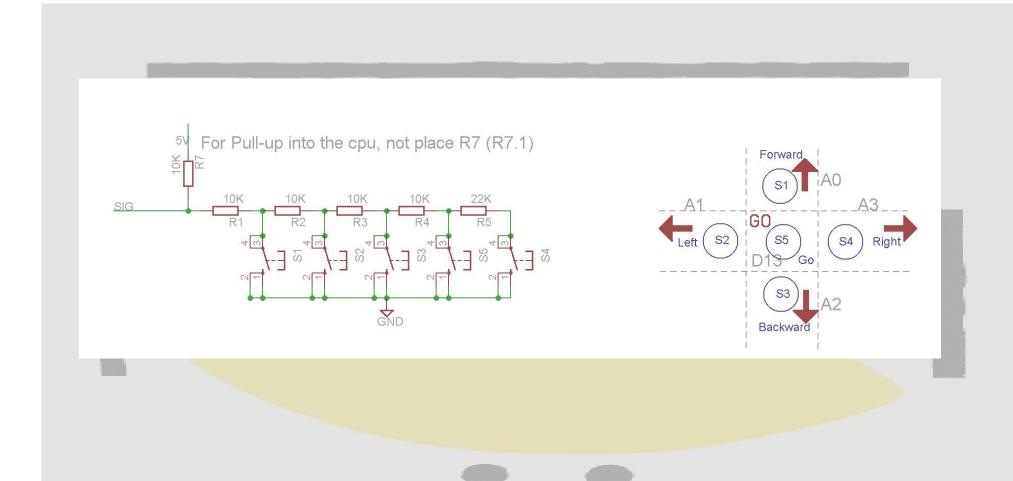
Conexionado Botonera



Conexionado botonera

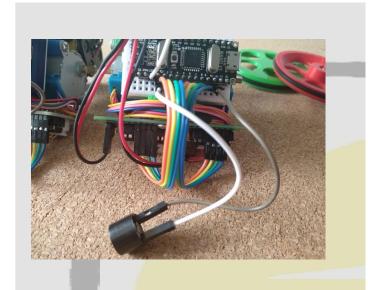
- Pin gnd: gnd de abajo (al lado D2)
- Pin 5V: 5V de arriba
- Pin Signal: A7 (arriba)
- Pin L1: A0
- Pin L2: A1
- Pin L3: A2
- Pin L4: A3

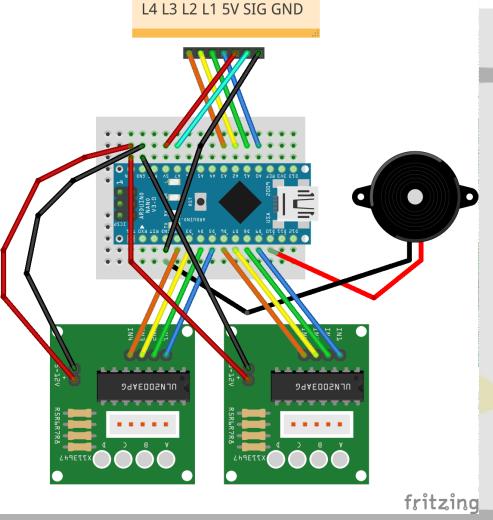
Botonera



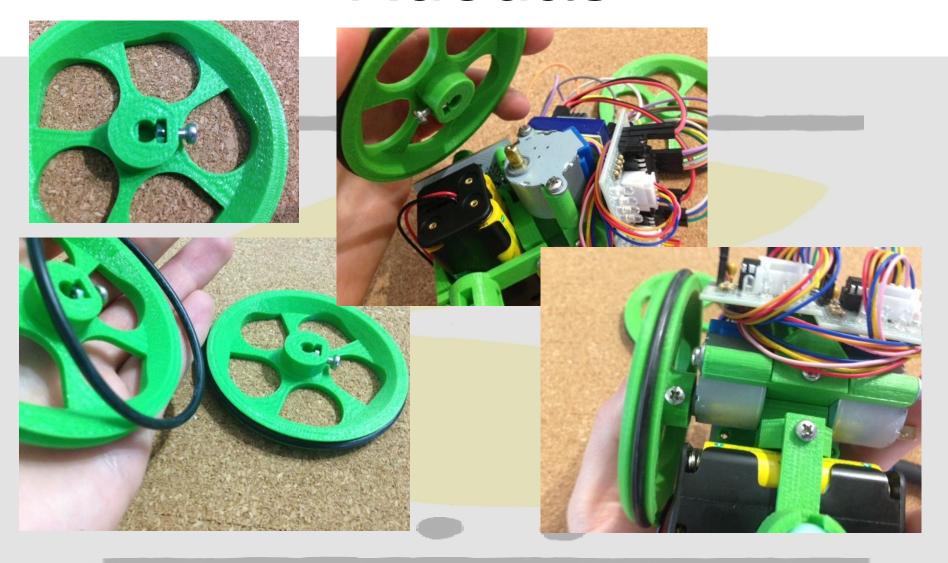
Zumbador y conjunto

Botonera

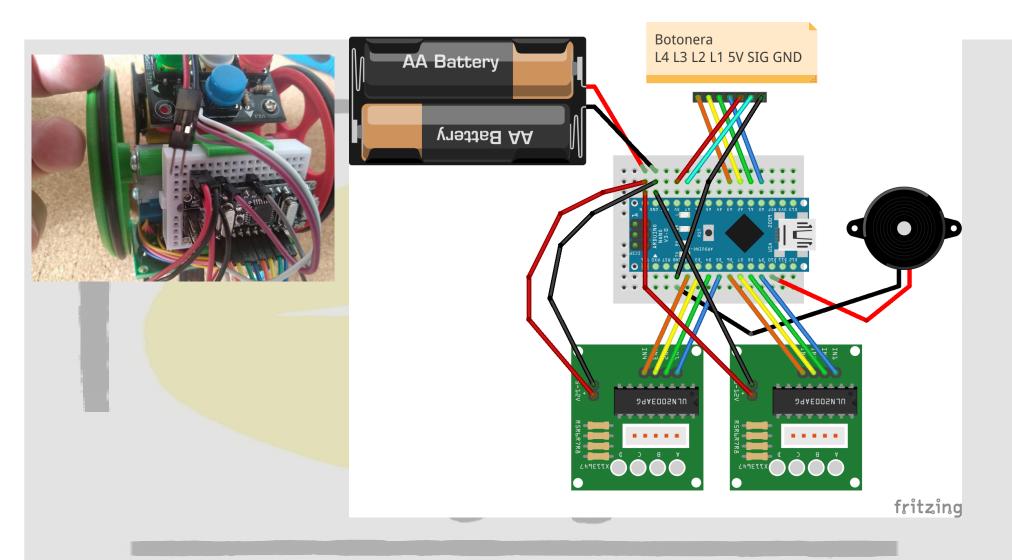




Ruedas



Conexionado Portapilas

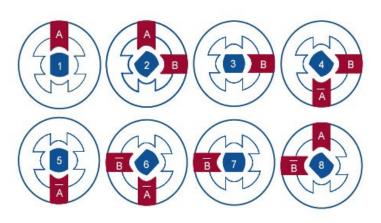


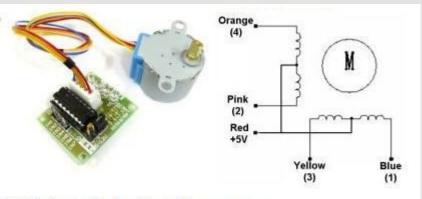
Modos firmware 1.6.1

- Modo normal
 - Pulsación corta: giros 90º
 - Pulsación larga: giros 45°
- Modo 60° (tecla GO pulsación larga)
 - Pulsación corta: giros 60°
 - Pulsación larga: giros 120º

Motor paso a paso







Half-Step Switching Sequence

Lead Wire Color	> CW Direction (1-2 Phase)							
	1	2	3	4	5	6	7	8
4 Orange	-	-						
3 Yellow		-						13.
2 Pink		100	10					Ţ
1 Blue						-	-	-

64 pasos/vuelta x 64 reductora = 4096 pasos para una vuelta