

Multi:bit Control board

This instruction is for experimental use of the board.
If you need specific instructions, see www.makekit.no/docs and
select your product.

About

The multibit control board is a motor and servo controller for micro:bit. It can be used for general motor control, solenoids, loudspeakers, pumps and more.

It features 3 powerful motor outputs, and two servo outputs. It has a few extra features for drone use.

Advantages

High power motor and solenoid control (10A max)

Better servo control, more torque

Low-battery protection

Small footprint, easy to use

Flexible

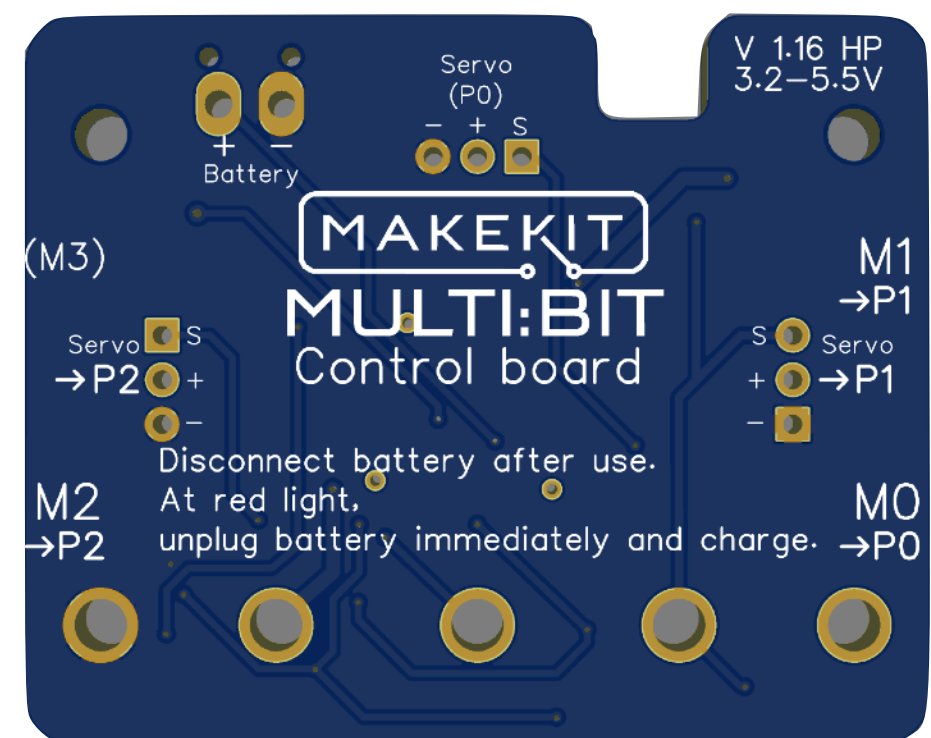
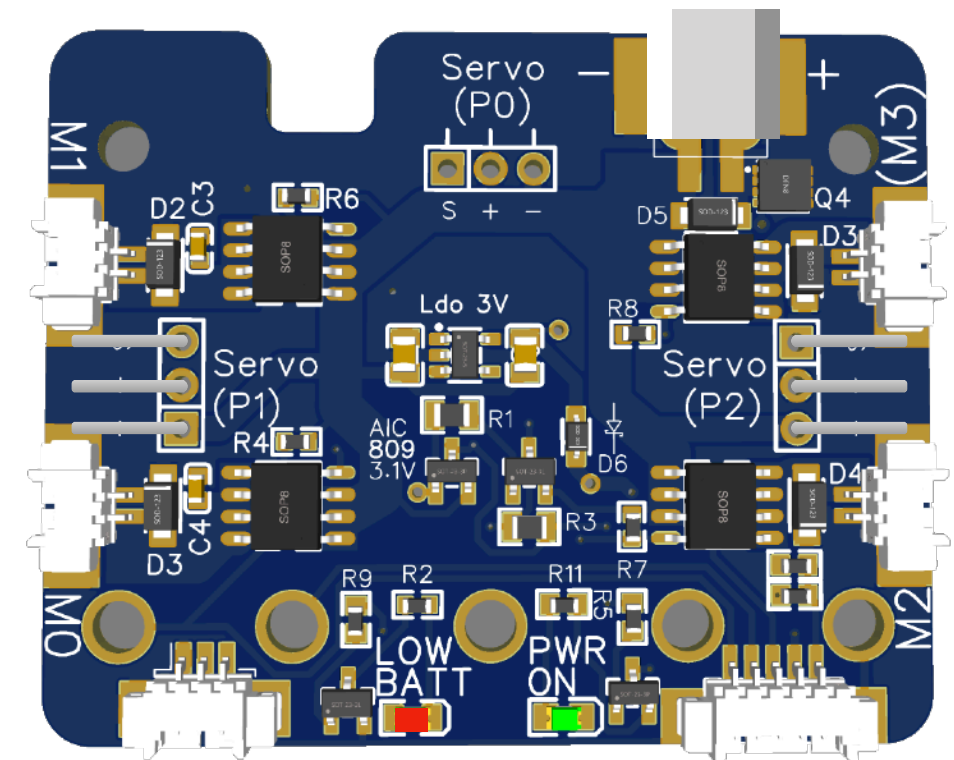
Power

3.2-5.5 v. You can use MakeKit 1s LiPo, 3 or 4xAA battery, or USB. The board has a low voltage cut off circuit to prevent LiPo or nimh-battery from over-discharge.

You can solder your own power source on the back of the board (top left)

Charging

No internal charging, external charger must be used.



Assembly

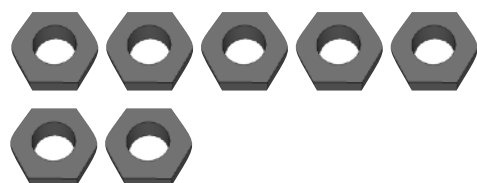
Parts:



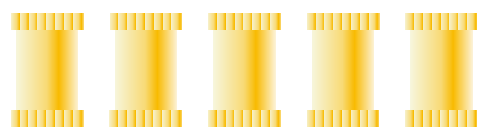
2x
nylon screw
M3x12



5x
nylon screw
M3x12

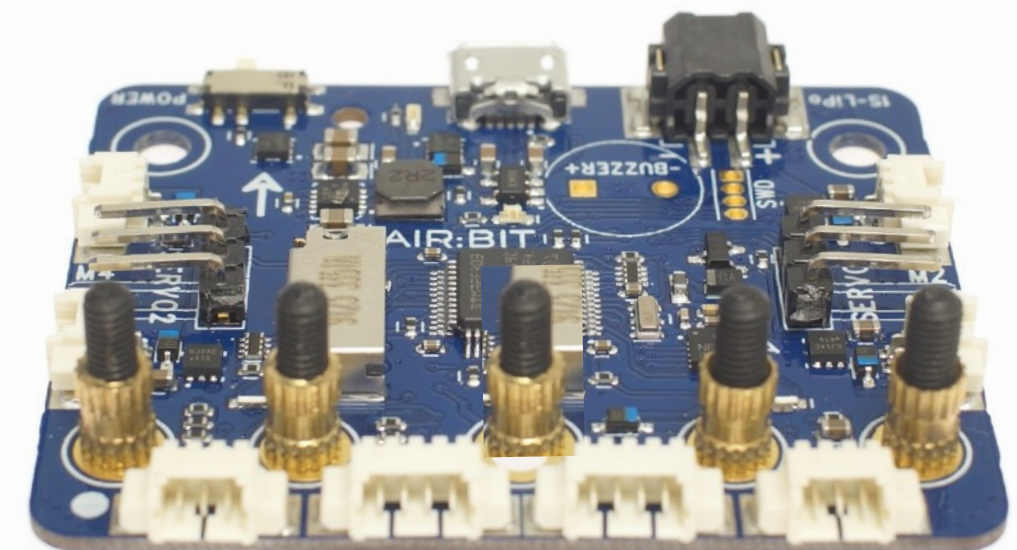


7x
nylon nuts
M3



5x
knurled brass nuts
M3

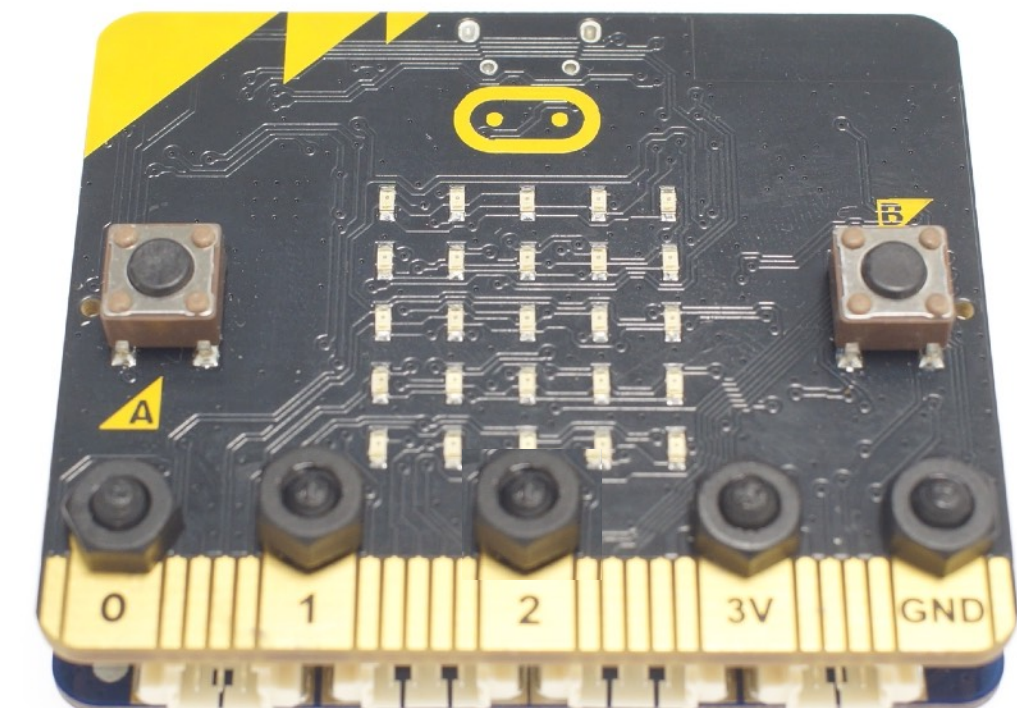
Screw the five brass nuts to the screws.



Screw the two nylon screws on the back side with two nuts



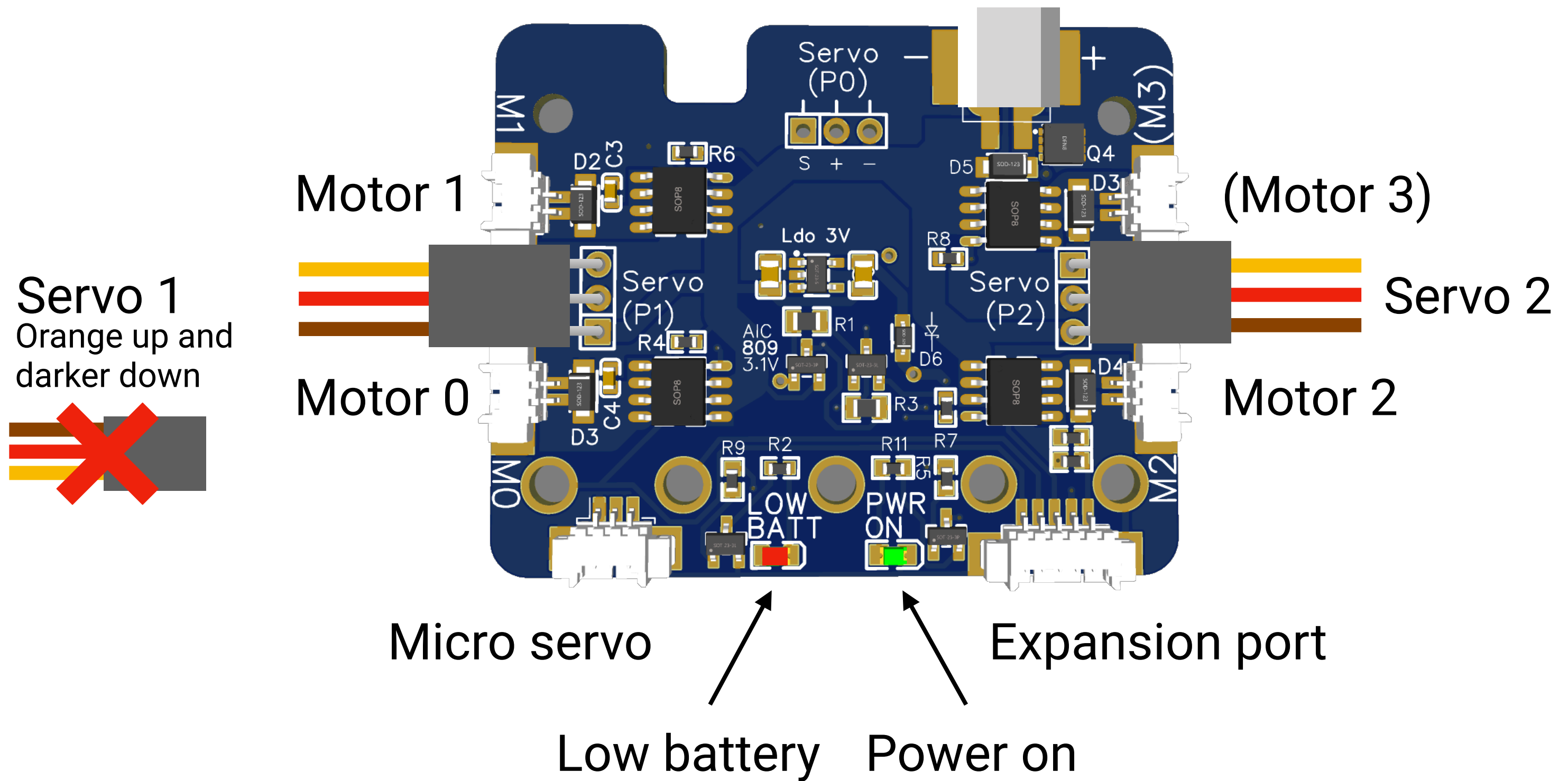
Mount the micro:bit on top with 5 nuts.



Make sure there is no wiggle on the brass nuts. They should carry electrical signals to micro:bit and back. The 5 nuts on top also needs to be thight.

Connections

Battery 3.2-5.5 V



Code

Select P0, P1, or P2:

Control a servo (0-180 degrees)



Control a motor (on/off)



1 = power on, 0 = power off

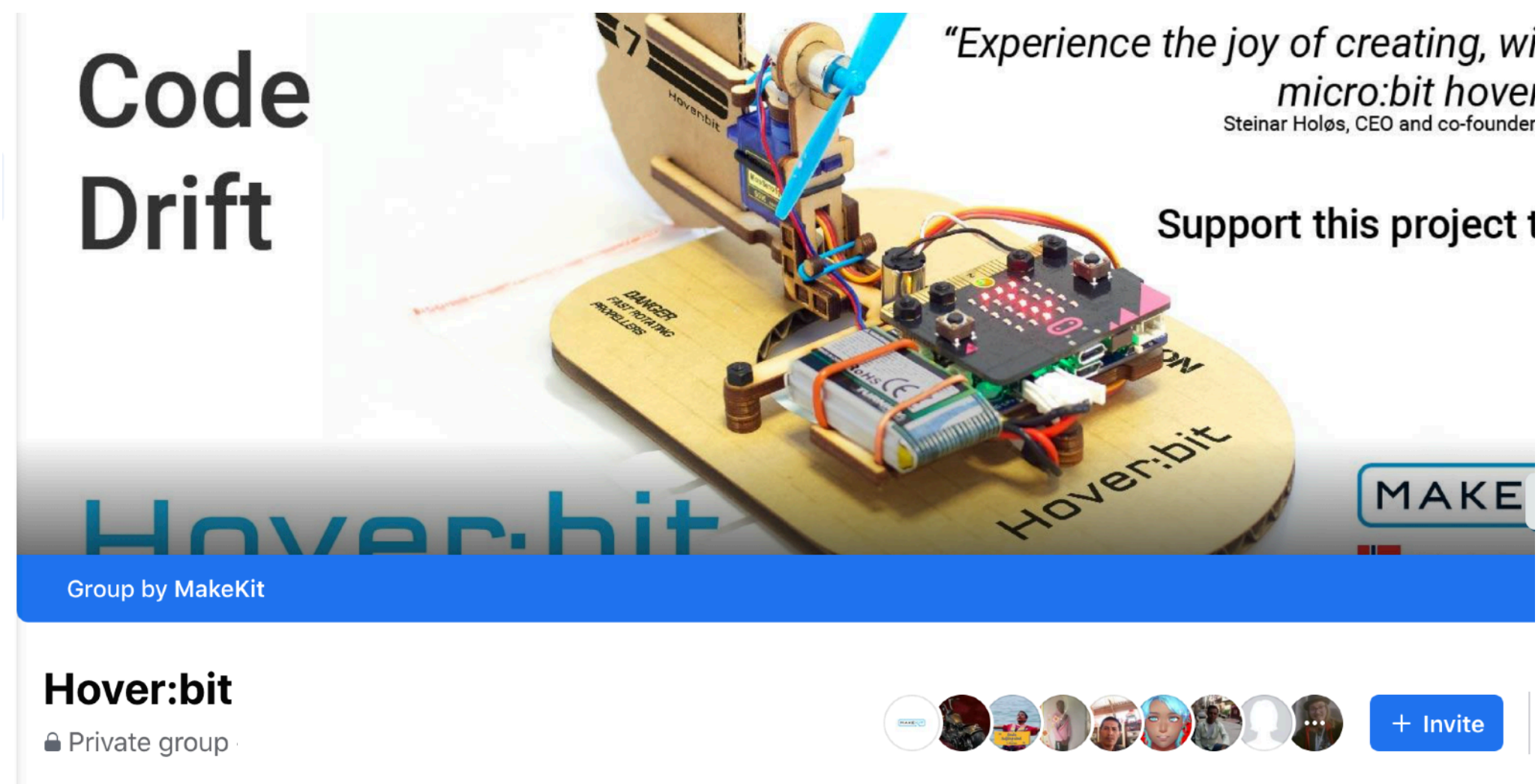
Control a motor (speed control)



Choose speed between 0 (off) and 1023 (full speed)

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