

Motor Folder

`components/driving_board/motor`

All of the motor functions in this folder are called in [Main](#)

BLDC Motors:

They are used to control the speed of the rover.

`bldc.c` contains:

The `set_bldc_pwm()` method. This method scales the control signal value calculated from control code and adjust the pwm **duty cycle** outputted by the STM32 accordingly.

Stepper Motors:

`stepper.c` contains:

The `set_stepper_pwm()` method. This method scales the control signal value calculated from control code and adjust the pwm **frequency** outputted by the STM32 accordingly.

Encoders:

`read_encoder.c` contains:

The `read_encoders()` method. This method reads encoder values of **encoder angle, voltage generated** and **rpm**.

Revision #7

Created 2026-04-14 15:21:14 UTC by Irem Civginer

Updated 2026-04-23 12:17:41 UTC by Irem Civginer