

Program Flow

Basic Workflow:

Firmware is present in `affbotics_software/firmware/avg/BLDC_driver/src/main.cpp`

- BLDC driver board communicates using Modbus over RS485
- The Modbus I registers `0x2000` can be Written with a value from -200 to 200 for setting the velocity of the motor.
- Where -ve values spin the motor in the opposite direction
- comment the line `#define IAM_LEFT` for Right motor or leave it uncommented for Left motor

Am a Geek:

- Modbus Register address and `SLAVE_ID` can be changed by changing `#define` values
- Motor PID values can be tweaked if needed using `motor.PID_velocity.P,`
`motor.PID_velocity.I,` `motor.PID_velocity.D`
- change the phase angle `motor.P_angle.P` and direction `motor.initFOC(0, Direction::CW);` if required.

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