**INSTRUCTIONS**

**OS Tested:** Windows 10 64 bits

1. **Setup Python environment**

* Install Python 3.7.3

<https://www.python.org/downloads/release/python-373/>

* Add python 3.7 to Path of system
* Open a Command Prompt
* Run: cd path\BLDC\_Speed\_Control\Python\_DataLogger
* Run: pip install -r requirements.txt

1. **Setup Arduino environment**

* Install Arduino IDE
* Upload Arduino script to Arduino board

1. **Start motor**

* Disconnect ESC from energy source
* Connect Arduino PC
* Open a Command Prompt
* Run: cd path\BLDC\_Speed\_Control\Python\_DataLogger\src
* Run: python test.py
* Choose Arduino ID. Example 1, 2 and then enter
* Press 1 and enter
* Connect ESC to energy source and wait until it is calibrated
* Motor start to rotate to 1800 rmp
* An csv report is exported at path\BLDC\_Speed\_Control\Python\_DataLogger\csv
* For stop motor run: ctrl+c

If you calibrated the motor and it does not be disconnected, you can choose normal operation.

Note: if the motor is disconnected from energy source or it shut down, it needs to be calibrated again.