

PiMyRide Logger Installation

Setting up the Raspberry Pi on Raspbian Wheezy

First lets do some house keeping.

```
sudo apt-get update
sudo apt-get upgrade
```

Now we need to install the python packages.

```
sudo apt-get install wget
cd /home/pi/
wget http://www.pimyrider.com/downloads/PiMyRide-Logger-1.0.tar.gz
tar xzf PiMyRide-Logger-1.0.tar.gz
rm PiMyRide-Logger-1.0.tar.gz
sudo chmod -R +x PiMyRide-1.0
sudo apt-get install python-dev
sudo apt-get install python-setuptools
sudo easy_install -U distribute
sudo apt-get install python-pip
sudo pip install rpi.gpio
sudo pip install pyserial
sudo apt-get install python-smbus
sudo apt-get install i2c-tools
```

We need to edit the **/etc/modules** also and add to the end of the file

```
i2c-bcm2708
i2c-dev
```

Then save and reboot to enable the hardware I2C driver

We need to set up an init script for the Raspberry Pi also. This script will be ran at boot time and will ensure that our **PiMyRide_LCD_Logger.py** or **PiMyRide_Logger.py** (For use without the LCD) script will start when the Raspberry Pi is powered on.

to make the init script we need to do some editing on the raspberry pi using your favorite editor create the file **/etc/init.d/pimyrider** and enter the following;

```
#####

### BEGIN INIT INFO
# Provides: PiMyRide - PiMyRide
# Required-Start: $remote_fs $syslog
# Required-Stop: $remote_fs $syslog
# Default-Start: 2 3 4 5
# Default-Stop: 0 1 6
# Short-Description: PiMyRide OBDII Logger
# Description: PiMyRide
### END INIT INFO

#!/bin/sh
# /etc/init.d/pimyrider

export HOME
case "$1" in
    start)
        echo "Starting PiMyRide"
        /home/pi/PiMyRide-1.0/PiMyRide_LCD_Logger.py 2>&1 &
        ;;
    stop)
        echo "Stopping PiMyRide"
        PIMYRIDE_PID=`ps auxwww | grep PiMyRide_LCD_Logger.py | head -1 | awk '{print $2}'`
        kill -9 $PIMYRIDE_PID
        ;;
    *)
        echo "Usage: /etc/init.d/pimyrider {start|stop}"
        exit 1
        ;;
esac
exit 0

#####
```

Once you have pasted this into the file **/etc/init.d/pimyride** save and exit the file. It should be noted that you must ensure the path to the program is correct, the path above is **"/home/pi/PiMyRide/PiMyRide_LCD_Logger.py"** yours may be different. also if using the PiMyRide_Logger.py instead you must change the path above to **"/home/pi/PiMyRide/PiMyRide_Logger.py"**

There are a few more steps to follow

```
sudo chmod +x /etc/init.d/pimyride
sudo update-rc.d pimyride defaults
```

This will ensure the init script is executable and will start at boot time.

That should be the basic configuration for the PiMyRide Logger.

Happy Logging.

Contact us if you have any problems with the above configuration

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