Follow the steps below to set up the software on the pi zero.

1.1 The next step is to install requirements, which for now includes pyudev, so open a terminal, and type “pip3 install pyudev”, which should work, if not try “sudo install pyudev”. More requirements are likely to be added in the future.

1.2 You will need to set up the software to run as a permanent service. Do this by following the steps below:

1.2.1 Create the following file /etc/network/interfaces.d/wlan0 with the following contents

auto wlan0

iface wlan0 inet static

address 192.168.0.1

netmask 255.255.255.0

wireless-channel 11

wireless-essid sensor-recorder

wireless-mode ad-hoc

1.2.2 run the following commands:

1apt-get install udhcpd

systemctl enable udhcpd

systemctl disable wpa\_supplicant

mv /etc/rc3.d/S01udhcpd /etc/rc3.d/S50udhcpd

1.2.3 Modify /etc/init.d/udhcpd so that the line with $Required-Start on it ends in $network e.g.

# Required-Start:

$remote\_fs $syslog $network

1.3 Next you will want to go to the Github repository and download the sensor recorder file, which you can find at this link:

1.4 Add the following line to cron for user pi.

@reboot /bin/bash home/pi/Documents/sensor\_recorder/always-run.sh >> /home/pi/Documents/sensor\_recorder/sensor\_recorder.log