# Fan Controller

We build the following and connect it to the expansion board of the Raspbi (fan 5 volt):



Then, we execute the following commands:

cd

mkdir Development

wget <https://github.com/SensorsIot/Dietpi-Helpers/blob/master/run-fan.py>

python run-fan.py

This should show the temperature. Now you can adjust the threshold and the GPIO:

pin = 2 # The pin ID, edit here to change it  
maxTMP = 45 # The maximum temperature in Celsius after which we trigger the fan

CPU\_temp = float(getCPUtemperature())  
if CPU\_temp>maxTMP:  
 fanON()  
if CPU\_temp<maxTMP-5:  
 fanOFF()

And switch off the printing for production

# print("temp is {0}".format(temp)) #Uncomment here for testing

Now, we go to the directory: /etc/init.d/fan

cd /etc/init.d/

and get the file “fan:

wget <https://raw.githubusercontent.com/SensorsIot/Dietpi-Helpers/master/fan>

at the end, we make sure, it is started during startup:

update-rc.d fan defaults

Now, the code should start at boot time.

This document is based on the ideas of:

<https://hackernoon.com/raspberry-pi-temperature-controlled-fan-2aa0de72a564>