# **Light Switch: Project procedure (step by step)**

# **Network settings:**

To have a static IP of your Raspberry Pi, you have two options: add DHCP - reservation in your routers configuration page or change your Pi's interface settings, and choose a static IP (warning: this can cause IP conflicts).

#### **Static IP:**

```
File: /etc/network/interfaces

Put this content in it (change address to whatever IP you want)

auto lo

iface lo inet loopback

iface eth0 inet static

address 192.168.0.100 # IP-address of the computer

netmask 255.255.255.0

network 192.168.1.0

broadcast 192.168.1.255

gateway 192.168.1.254

allow-hotplug wlan0

iface wlan0 inet manual

wpa-roam /etc/wpa_supplicant/wpa_supplicant.conf

iface default inet dhcp
```

## Wifi dongle (DHCP):

## **Installation:**

To get the Raspberry Pi, and the software used in Light Switch to work properly, follow this procedure, installing required packages.

```
sudo apt-get update
sudo apt-get install git-core
sudo apt-get install build-essential
sudo apt-get install python-dev
sudo apt-get install python-pip
git clone git://git.drogon.net/wiringPi
cd wiringPi
./build
gpio -v
gpio readall
cd ..
sudo pip install wiringpi2
sudo apt-get install apache2 libapache2-mod-php5 php5 vsftpd
Make theese changes to the file: /etc/vsftpd.conf so the user can access via ftp.
anonymous_enable=NO
local_enable=YES
write enable=YES
Cron job:
sudo crontab -e
add this line in after typing the command above:
* * * * * /opt/lightswitch/settings/settings-parser.py
Copy files:
cd /opt
sudo mkdir lightswitch
sudo chown pi:pi lightswitch
cd lightswitch
wget http://storbukas.no/lightswitch.tar.gz
tar -zxvf lightswitch.tar.gz
rm -rf lightswitch.tar.gz
Adding script to init.d:
cd /opt/lightswitch
sudo cp special-files/lightswitch-startup /etc/init.d/
sudo chmod +x /etc/init.d/lightswitch-startup
sudo update-rc.d lightswitch-startup defaults
```

Finally, type: sudo reboot