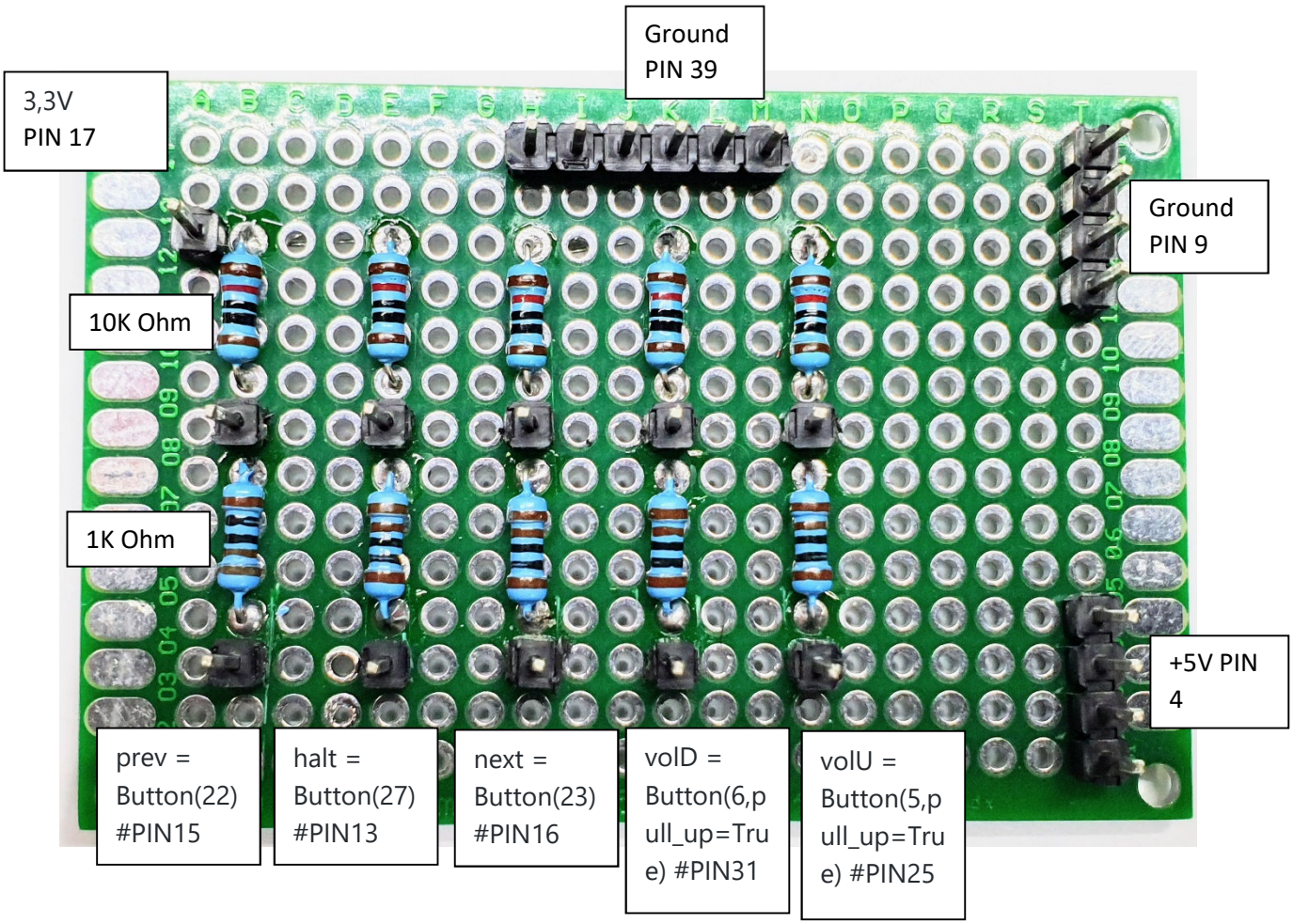


```
shut = Button(24, hold_time=2) #PIN5
vol0 = Button(13,pull_up=True)
volU = Button(5,pull_up=True) #PIN25
volD = Button(6,pull_up=True) #PIN31
next = Button(23) #PIN16
prev = Button(22) #PIN15
halt = Button(27) #PIN13
```

1. START

- Raspian Stretch installieren https://downloads.raspberrypi.org/raspbian_full_latest
- Alles auf DE konfigurieren
- IC2 / SSH aktivieren

1.1 Console:

- sudo iwconfig wlan0 power off
- sudo raspi-config

  Select Boot options and then Desktop / CLI. The option you want to pick is Console Autologin - Text console, automatically logged in as 'pi' user

2. RPi-Jukebox-RFID installieren:

https://github.com/MiczFlor/RPi-Jukebox-RFID

- cd; rm stretch-install-*; wget https://raw.githubusercontent.com/MiczFlor/RPi-Jukebox-RFID/master/scripts/installscripts/stretch-install-spotify.sh; chmod +x stretch-install-spotify.sh; ./stretch-install-spotify.sh
- WLAN Daten eingeben
- Iface: Master
- Spotify Zugang eingeben
- Mopidy key https://www.mopidy.com/authenticate/

3. Display installieren

- https://github.com/splitti/oled_phoniebox
- https://github.com/splitti/oled_phoniebox/tree/master/scripts/gpio-buttons

4. OnOff Shim installieren

- curl https://get.pimoroni.com/onoffshim | bash

Settings

- sudo nano /etc/cleanshutd.conf

  daemon_active=1
  trigger_pin=17
  #led_pin=18
  poweroff_pin=4
  hold_time=0
  shutdown_delay=0
  polling_rate=1

Info zum On Off Shim

Taster, Beleuchtung G und 5V
Benutzt

5V PIN2/4
Ground PIN6
GPIO 17 PIN11 Power
GPIO 04 PIN7 Shutdown

5. Miniamp installieren

https://forum-raspberrypi.de/attachment/15302-anleitung-jukebox-micz-flor-mit-buttons-v2-pdf/

https://github.com/MiczFlor/RPi-Jukebox-RFID/issues/261

Adaptions for hifiberry MiniAmp

5.1 settings Audio_iFace_Name

- sudo nano /RPi-Jukebox-RFID/settings/Audio_iFace_Name
  set “Master” instead of “PCM”

5.2 GPIO-Buttons

https://github.com/MiczFlor/RPi-Jukebox-RFID/wiki/Hardware-Pinout-Overview#classic-pinout

- sudo nano /home/pi/RPi-Jukebox-RFID/scripts/gpio-buttons.py

```
shut = Button(24, hold_time=2) #PIN5
vol0 = Button(13,pull_up=True)
volU = Button(5,pull_up=True) #PIN25
volD = Button(6,pull_up=True) #PIN31
next = Button(23) #PIN16
prev = Button(22) #PIN15
halt = Button(27) #PIN13
```

Dann nochmal das hier installieren:

Install GPIO software
https://github.com/MiczFlor/RPi-Jukebox-RFID/blob/master/docs/GPIO-BUTTONS.md
Auto-start the Phoniebox
https://github.com/MiczFlor/RPi-Jukebox-RFID/wiki/CONFIGURE-stretch#systemdautostart

5.3 modify
sudo nano /boot/config.txt
commenting this line out:
#dtparam=audio=on
add this line at the end of the file:
dtoverlay=hifiberry-dac

5.4 Modify /etc/asound.conf

important: check if there is one of the following files and remove them:

```
$ rm ~/.asound.conf
$ rm ~/.asoundrc
```

make the following changes to sudo nano /etc/asound.conf

```
#pcm.!default {
# type hw card 0
#}
#ctl.!default {
# type hw card 0
#}

pcm.hifiberryMiniAmp {
   type softvol
   slave.pcm "plughw:0"
   control.name "Master"
   control.card 0
}
pcm.!default {
   type      plug
   slave.pcm  "hifiberryMiniAmp"
}
```

reboot, to check if everything works:
$ reboot -h now
test hifiberry speaker output:
$ speaker-test -D hifiberryMiniAmp -c 2

5.5 modify /etc/mpd.conf
if this works, modify the mpd-configuration file: sudo nano /etc/mpd.conf

the following block should exist already. Just uncomment the line “mixer_control” and set it to “Master”

```
#
# An example of an ALSA output:
#

audio_output {
       type           "alsa"
       name           "My ALSA Device"
#      device         "hw:0,0"       # optional
#      mixer_type     "hardware"     # optional
#      mixer_device   "default"      # optional
       mixer_control  "Master"       # optional
#      mixer_index    "0"            # optional
}
```

---

add the following block:

```
audio_output {
      enabled        "yes"
      type          "alsa"
      name           "HiFiBerry DAC"
      device         "hifiberryMiniAmp"
      auto_resample   "no"
      auto_channels   "no"
      auto_format     "no"
      dop           "no"
}
```

HIFIBERRY MINIAMP INFO

GPIOs 18-21 (pins 12, 35, 38 and 40) are used for the sound interface. GPIO16 can be used to mute the power stage. GPIO26 shuts down the power stage. You can't use these GPIOs for any other purpose.

ENDE

Hier sind die Ordner danach zu finden – Gutes Programm hierfür WINSCP

/home/pi/RPi-Jukebox-RFID/shared/audiofolders