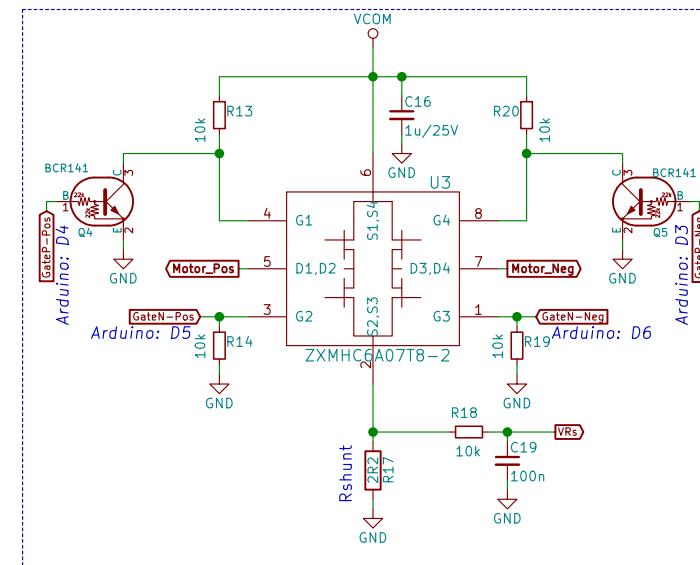
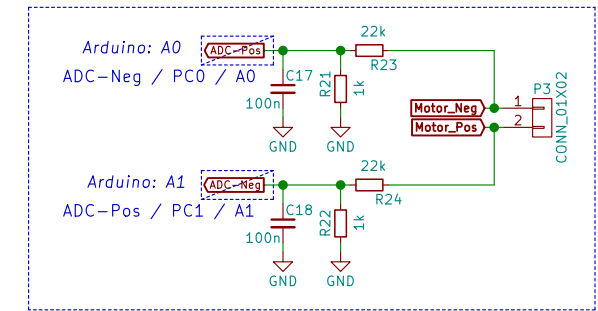


Input Protection & Supply Voltage measurement

5V DCDC

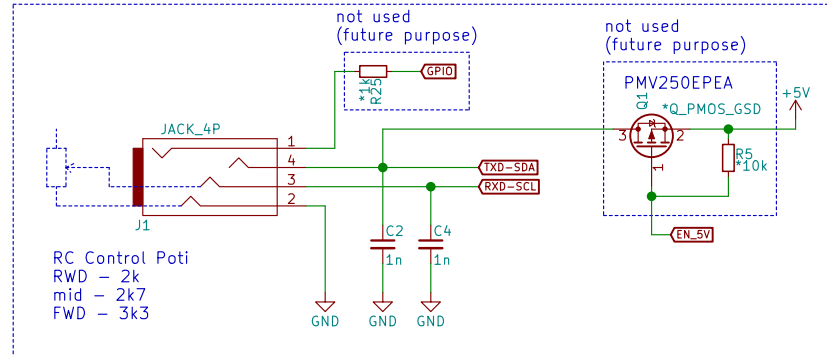


Full H-Bridge to drive the DC motor

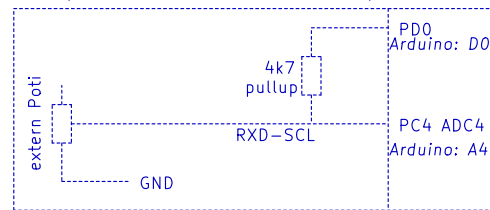


Motor Connector,
with voltage measurement

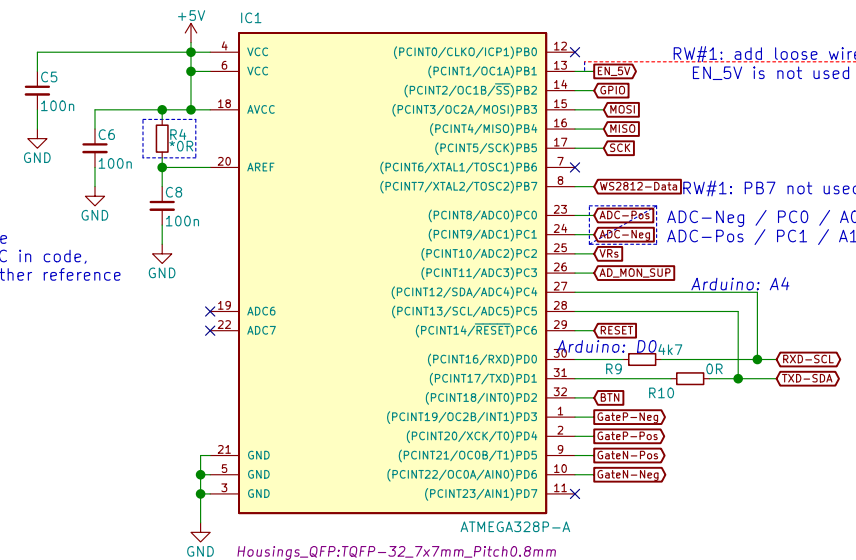
Audio-Jack Connector for remote control & UART connection



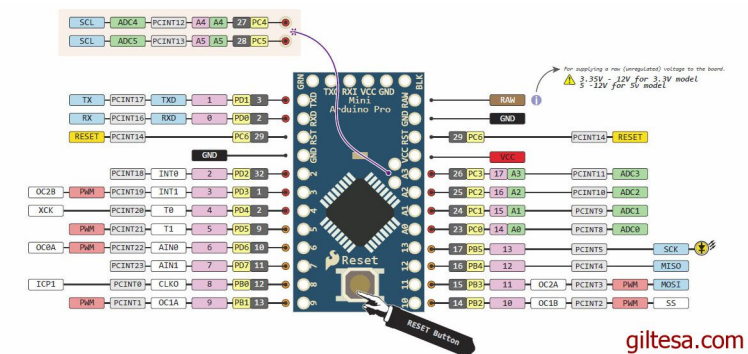
Concept of Remote Control with extern poti



R4: do not populate
AREF is set to AVCC in code,
for the option of other reference



WS2812 LED Strip Connector



giltesa.com

REWORK RW#1 - 19.11.2019 - PCB 013/00

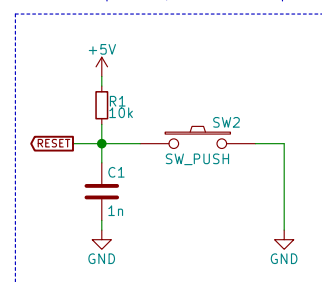
for arduino compatibility of WS2811 control:
- use pin PB1 (Arduino: D1) instead of PB7
- do not populate R11
- do not populate Q1/R5

REWORK RW#2 - 01.06.2020 - PCB 013/00

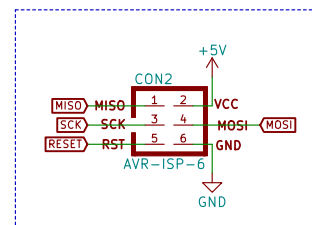
to get the firmware update via UART running correct:
- use 0-Ohm for R10 (TXD)

to get the remote control running with R10 set to 0-Ohm:
- use PC4 (Arduino: A4) for RC analog input
- set PD0 (Arduino: D0) high, to use R9 as pull-up

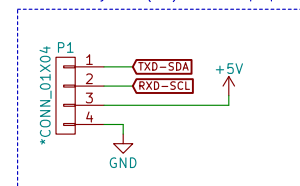
Onboard reset micro-button,
for development / firmware upload only



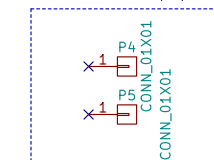
Atmel ISP-Connector,
to flash the Bootloader



Additional UART connector,
for program upload/debug
if audio-jack (J1) is not populated



Fiducial markers,
for automatic population



RW#2 01.06.2020
RW#1 19.05.2019

redlabs

Parts with value "*" are not populated

Sheet: /
File: LoopingLouino.sch

Title: DC Motor Control Board

Size: A3 Date: 2018-08-13

Rev: 013/00-02

KiCad E.D.A. kicad (5.1.10)-1

Id: 1/1