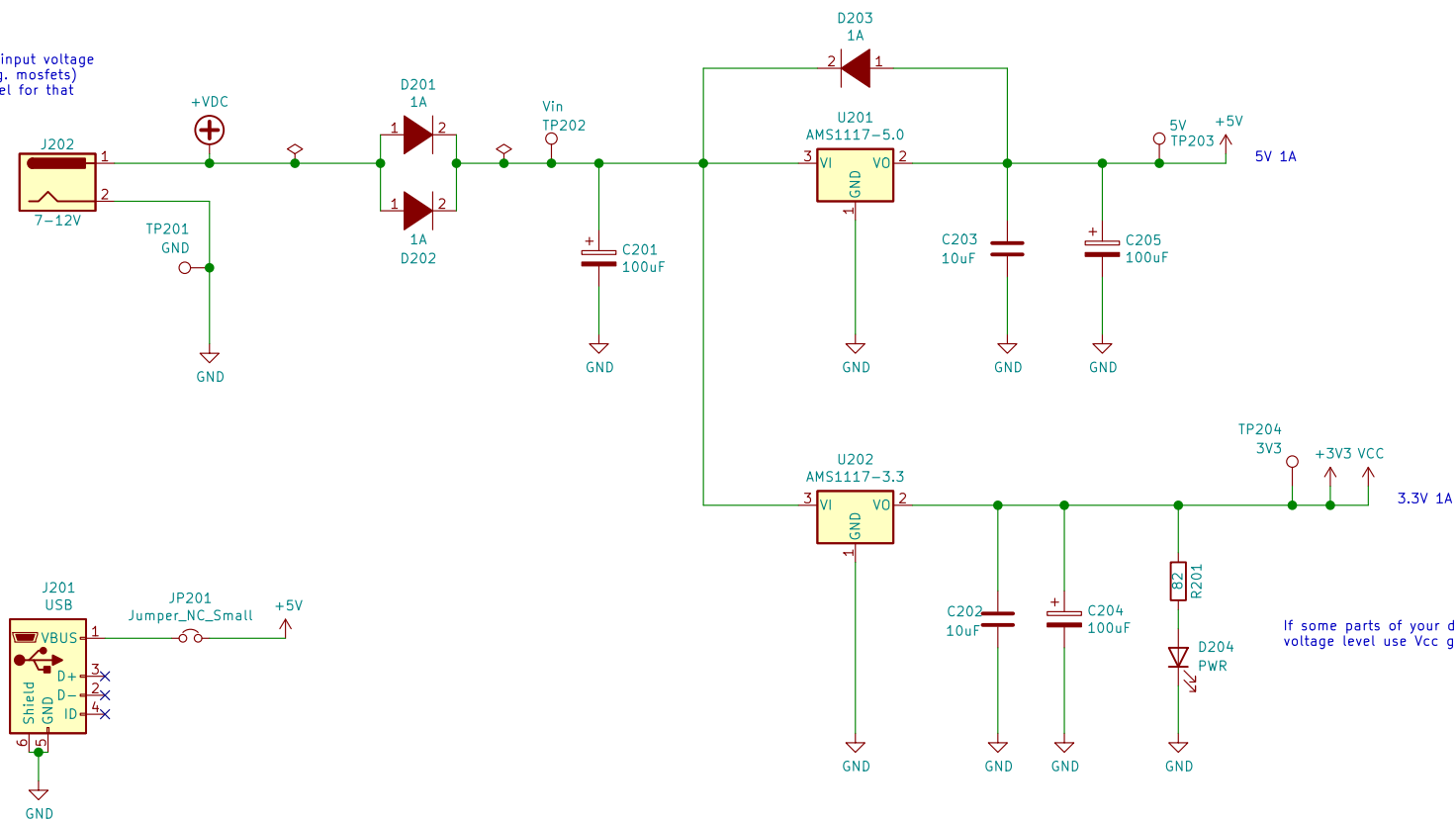


If you want to use input voltage
in other places (e.g. mosfets)
use VDC global label for that



If some parts of your design need to use MCU's
voltage level use Vcc global label for that

Remote Relay Switches
<https://github.com/Grehasopt/Electra>

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Sheet: /Power/

File: Power.sch

Title: Electra Project

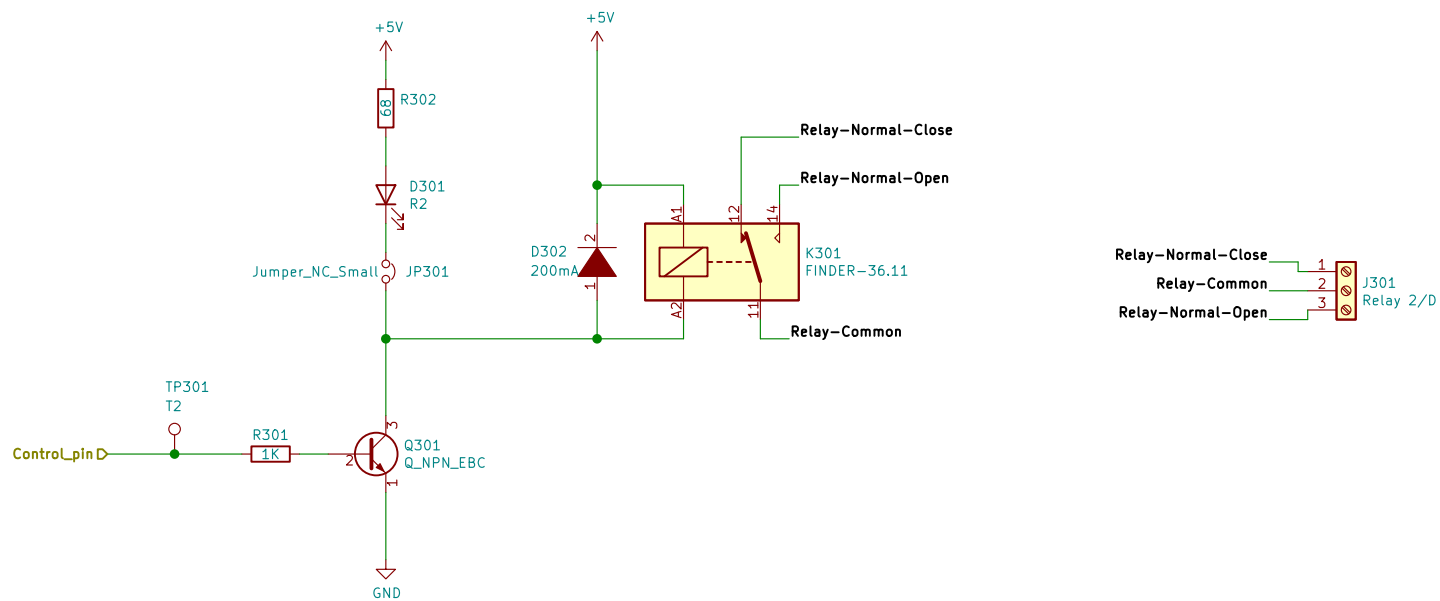
Size: A4

Date: 2021-04-01

Rev: 2.0

KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1

Id: 2/8



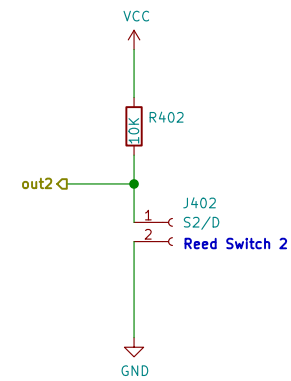
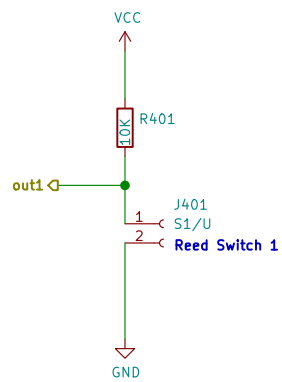
Remote Relay Switches
<https://github.com/Grehasopt/Electra>

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Sheet: /Relay2/
 File: Relay2.sch

Title: Electra Project

Size: A4	Date: 2021-04-01	Rev: 2.0
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1		Id: 3/8



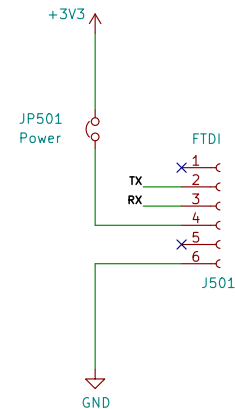
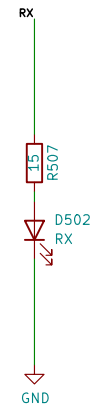
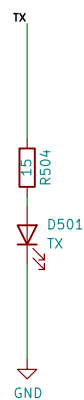
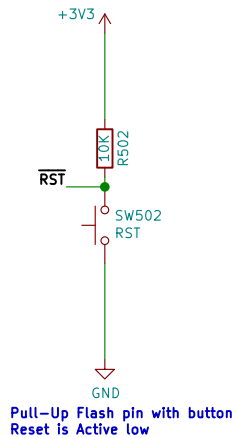
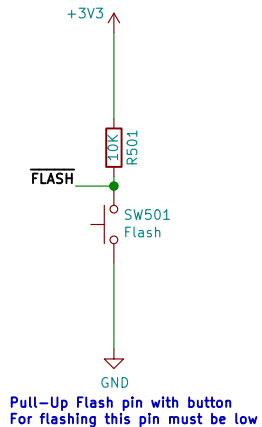
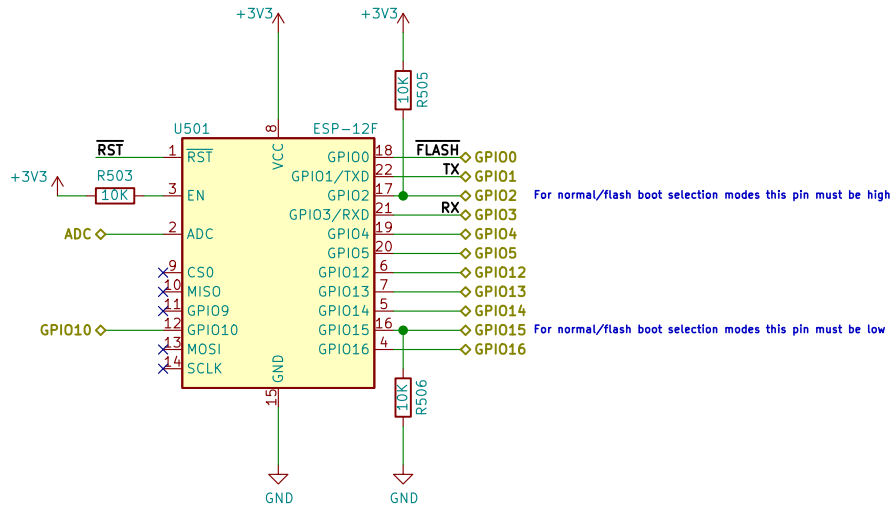
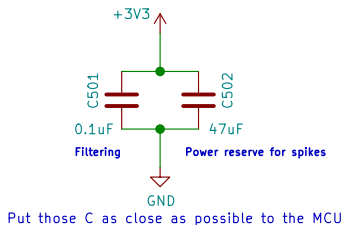
Remote Relay Switches
<https://github.com/Grehasopt/Electra>

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Sheet: /Reed Switches/
 File: Reed Switches.sch

Title: Electra Project

Size: A4	Date: 2021-04-01	Rev: 2.0
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1		Id: 4/8



ESP8266 "Bare minimum" connection for booting and flashing (resistors, buttons and ftdi connection pins included)

Remote Relay Switches

<https://github.com/Grehasopt/Electra>

Grehasopt

Sheet: /ESP8266/

File: ESP8266.sch

Title: Electra Project

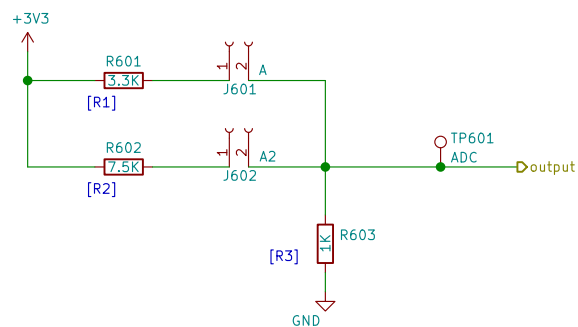
Size: A4

Date: 2021-04-01

Rev: 2.0

KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1

Id: 5/8



- * Condition A (Pressed Button 1): Say $R1/R3=n1 \Rightarrow Vo1 = 3.3/(n1+1)$
- * Condition B (Pressed Button 2): Say $R2/R3=n2 \Rightarrow Vo2 = 3.3/(n2+1)$

* Condition C (Both buttons pressed! Vo MUST be less than 1V!):
 So .. if $K=(n1*n2)/(n1+n2)$ [parallel connection] then:
 $Vo = 3.3/(K+1)$

Based on that, for $R3 = 1K$, $R1 = 7.5R3$ and $R2=3.3R3$
 $Vo1 \sim 0.388V$
 $Vo2 \sim 0.767V$
 $Vo \sim 1.003V$

Use ADC with voltage divider trick to add extra two input button. If you change values of these resistors you are able to still use it as an analog pin.

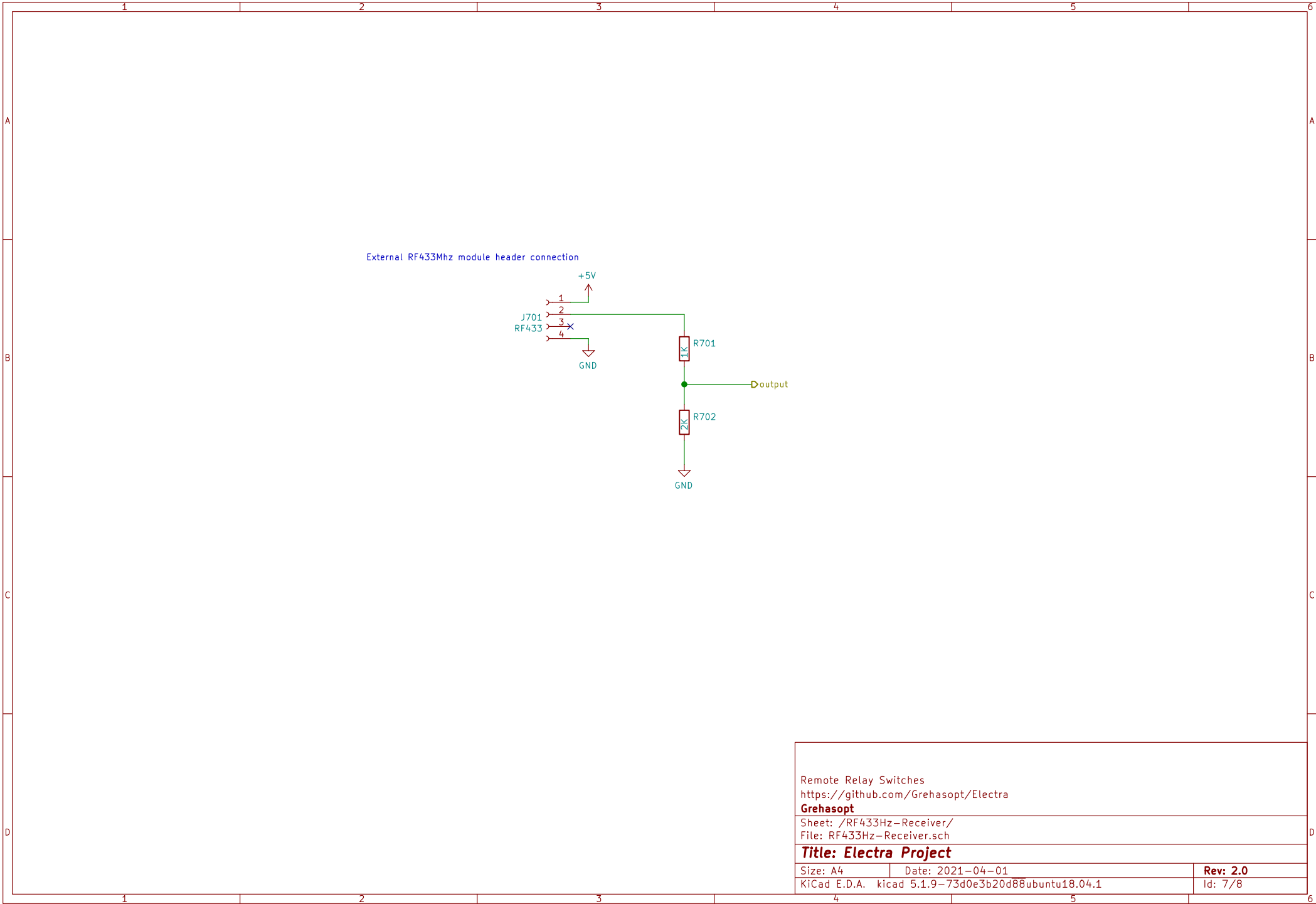
Remote Relay Switches
<https://github.com/Grehasopt/Electra>

Grehasopt

Sheet: /ADC-logic/
 File: ADC-logic.sch

Title: Electra Project

Size: A4	Date: 2021-04-01	Rev: 2.0
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1		Id: 6/8

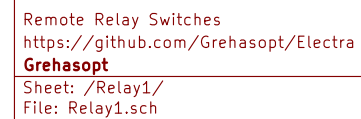


Remote Relay Switches
<https://github.com/Grehasopt/Electra>

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Sheet: /RF433Hz-Receiver/
File: RF433Hz-Receiver.sch

Title: Electra Project

Size: A4	Date: 2021-04-01	Rev: 2.0
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1		Id: 7/8



Size: A4	Date: 2021-04-01	Rev: 2.0
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1		Id: 8/8