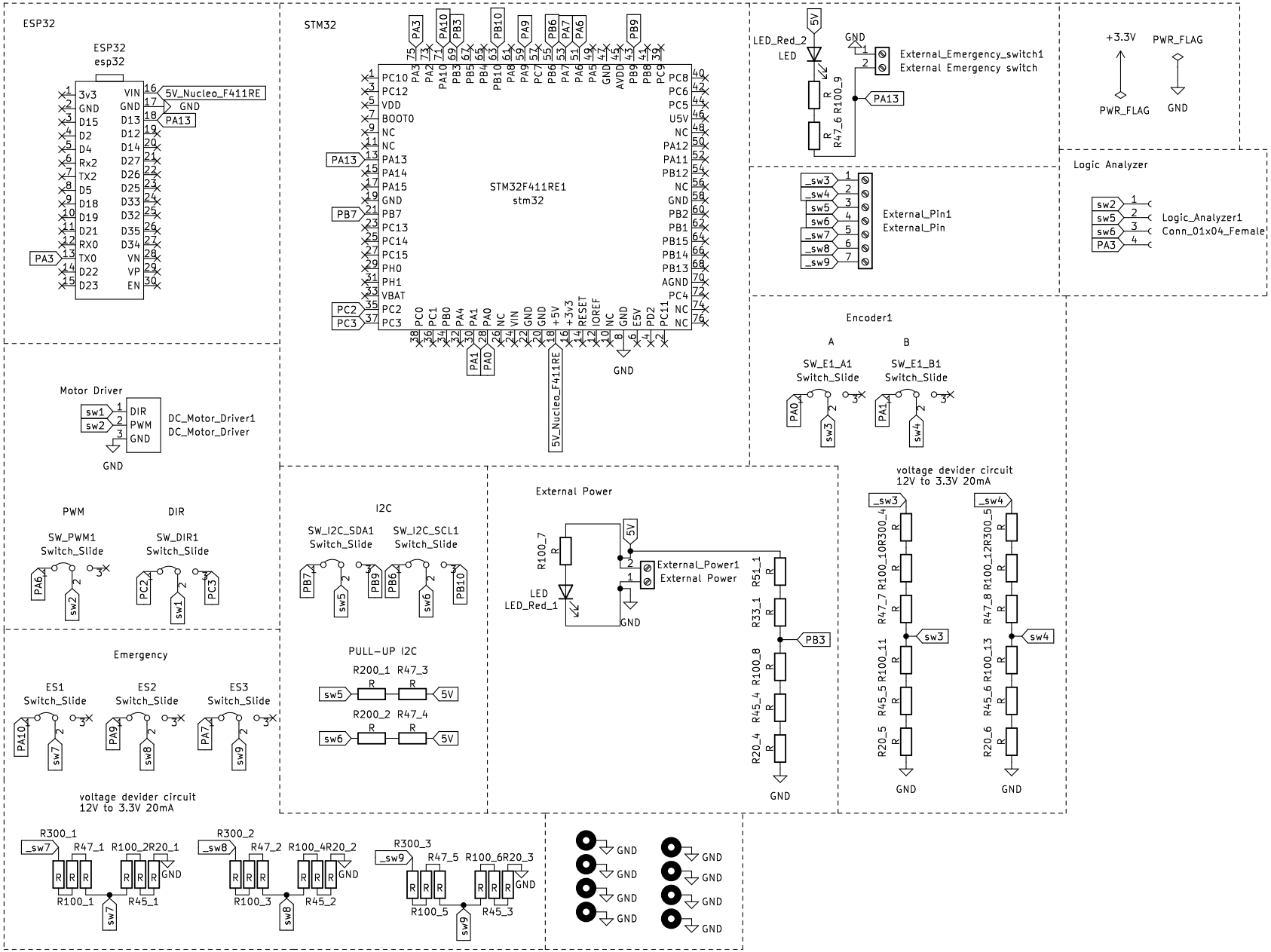
ESP32
ESP32
esp32
3v3
GND
D15
D2
D4
Rx2
TX2
D5
D18
D19
D21
RX0
TX0
D22
D23
VIN
GND
D13
D12
D14
D27
D26
D25
D33
D32
D35
D34
VN
VP
EN
5V_Nucleo_F411RE
GND
PA13
PA3
STM32
STM32F411RE1
stm32
PC10
PC12
VDD
BOOT0
NC
NC
PA13
PA14
PA15
GND
PB7
PC13
PC14
PC15
PH0
PH1
VBAT
PC2
PC3
PC8
PC6
PC5
U5V
NC
PA12
PA11
PB12
NC
GND
PB2
PB1
PB15
PB14
PB13
AGND
PC4
NC
NC
PA3
PA10
PB3
PB10
PA9
PB6
PA7
PA6
PB9
PC0
PC1
PB0
PA4
PA1
PA0
NC
VIN
GND
GND
+5V
+3V3
RESET
IOREF
NC
GND
E5V
PD2
PC11
5V_Nucleo_F411RE
GND
LED_Red_2
LED
5V
GND
R
R47_6 R100_9
External_Emergency_switch1
External Emergency switch
PA13
+3.3V
PWR_FLAG
PWR_FLAG
GND
Logic Analyzer
sw2
sw5
sw6
PA3
Logic_Analyzer1
Conn_01x04_Female
_sw3
_sw4
sw5
sw6
_sw7
_sw8
_sw9
External_Pin1
External_Pin
Motor Driver
sw1
sw2
DIR
PWM
GND
DC_Motor_Driver1
DC_Motor_Driver
GND
Encoder1
A
B
SW_E1_A1
Switch_Slide
SW_E1_B1
Switch_Slide
PA0
sw3
PA1
sw4
PWM
DIR
SW_PWM1
Switch_Slide
SW_DIR1
Switch_Slide
PA6
sw2
PC2
sw1
PC3
I2C
SW_I2C_SDA1
Switch_Slide
SW_I2C_SCL1
Switch_Slide
PB7
sw5
PB9
PB6
sw6
PB10
PULL-UP I2C
R200_1 R47_3
R
R
sw5
5V
R200_2 R47_4
R
R
sw6
5V
External Power
R100_7
R
LED
LED_Red_1
5V
External_Power1
External Power
GND
R51_1
R33_1
PB3
R100_8
R45_4
R20_4
GND
voltage devider circuit
12V to 3.3V 20mA
_sw3
R300_10
R47_7
R100_10
R45_5
R100_11
R20_5
sw3
GND
_sw4
R300_5
R47_8
R100_12
R45_6
R100_13
R20_6
sw4
GND
Emergency
ES1
Switch_Slide
ES2
Switch_Slide
ES3
Switch_Slide
PA10
sw7
PA9
sw8
PA7
sw9
voltage devider circuit
12V to 3.3V 20mA
R300_1
_sw7
R47_1
R100_2
R20_1
GND
R100_1
sw7
R45_1
R300_2
_sw8
R47_2
R100_4
R20_2
GND
R100_3
sw8
R45_2
R300_3
_sw9
R47_5
R100_6
R20_3
GND
R100_5
sw9
R45_3
GND
GND
GND
GND
GND
GND
GND
GND