Rover Monitor
rev: 0.2

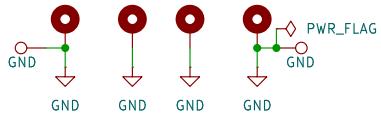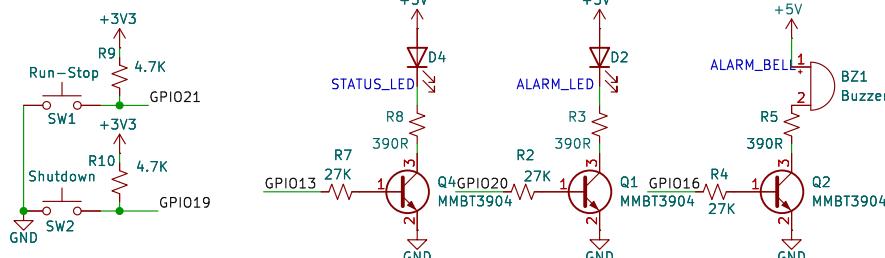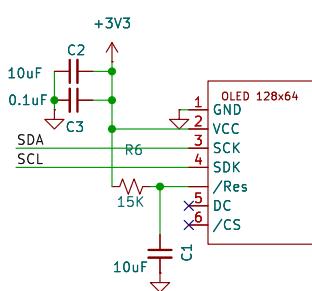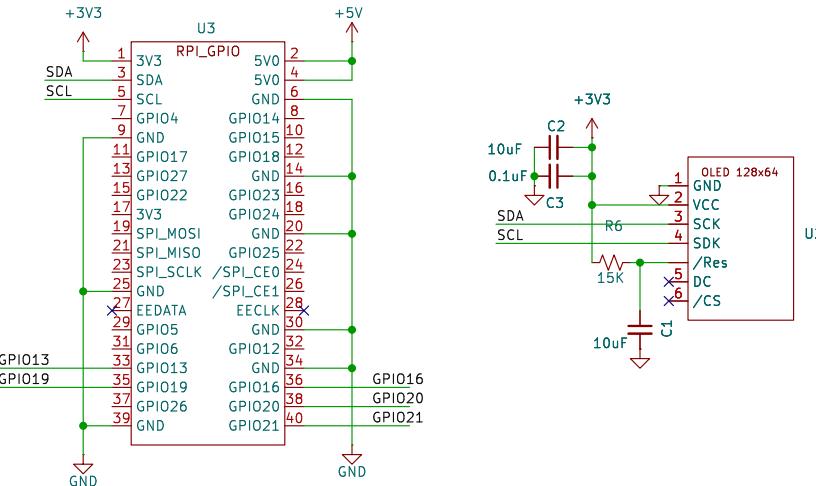**U3 — RPI_GPIO**

+3V3 | +5V

Pin	Name	Name	Pin
1	3V3	5V0	2
3	SDA	5V0	4
5	SCL	GND	6
7	GPIO4	GPIO14	8
9	GND	GPIO15	10
11	GPIO17	GPIO18	12
13	GPIO27	GND	14
15	GPIO22	GPIO23	16
17	3V3	GPIO24	18
19	SPI_MOSI	GND	20
21	SPI_MISO	GPIO25	22
23	SPI_SCLK	/SPI_CE0	24
25	GND	/SPI_CE1	26
27	EEDATA	EECLK	28
29	GPIO5	GND	30
31	GPIO6	GPIO12	32
33	GPIO13	GND	34
35	GPIO19	GPIO16	36
37	GPIO26	GPIO20	38
39	GND	GPIO21	40

SDA, SCL

GPIO13, GPIO19 (pins 33, 35)

GPIO16, GPIO20, GPIO21 (pins 36, 38, 40)

GND

U2 — OLED 128x64

+3V3

C2 10uF
C3 0.1uF

R6 15K
C1 10uF

Pin	Name
1	GND
2	VCC
3	SCK
4	SDK
5	/Res
5	DC
6	/CS

SDA, SCL

Run-Stop / Shutdown switches

+3V3
R9 4.7K
Run-Stop SW1 → GPIO21
+3V3
R10 4.7K
Shutdown SW2 → GPIO19
GND

STATUS_LED

+5V
D4
R8 390R
R7 27K
GPIO13 → Q4 GPIO20 MMBT3904
GND

ALARM_LED

+5V
D2
R3 390R
R2 27K
Q1 GPIO16 MMBT3904
GND

ALARM_BELL / Buzzer

+5V
ALARM_BELL
R5 390R
BZ1 Buzzer
R4 27K
Q2 MMBT3904
GND

PWR_FLAG

GND GND GND GND GND GND