FAN driver

VCC

C2
100nF
GND

U1
NE555P

VCC

2 TR   VCC
5 CV   Q 3
4 R   DIS 7
        THR 6
1 GND

RV1
1k
R1
4.7k

D1
FR107WS

FR107WS
D2

C1
10nF
GND

GND

VCC

R5
1k

VCC

F2
1A

R4
220

PWM

VCC_fuse

GND

GND

MX-47053-1000
J2

FID1
Fiducial

FID2
Fiducial

FID3
Fiducial

LED driver

VCC

C6
100nF
GND

U2
NE555P

VCC

2 TR   VCC
5 CV   Q 3
4 R   DIS 7
        THR 6
1 GND

VCC

R6
1k

R2
220

FR107WS
D4

RV2
1k

D5
FR107WS

R3
1k

D3
5.1V

GND

Q1
Q_NMOS_GSD

VCC

F1
1A

VCC_fuse_fan
GND_PWM

J1
Conn_01x02

C3
100nF
GND

POWER

J3
12V 1A

SW1
SW_SPDT

VCC

C4
47uF

C5
22uF

GND
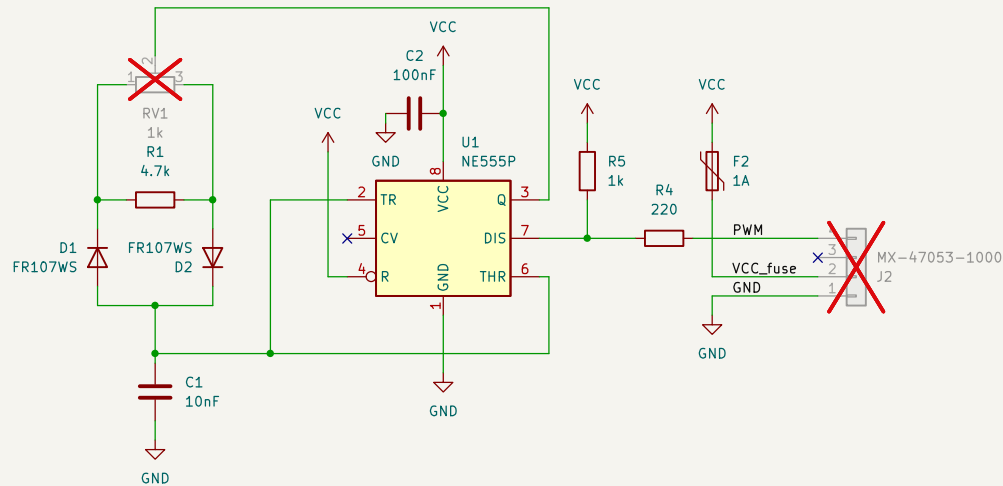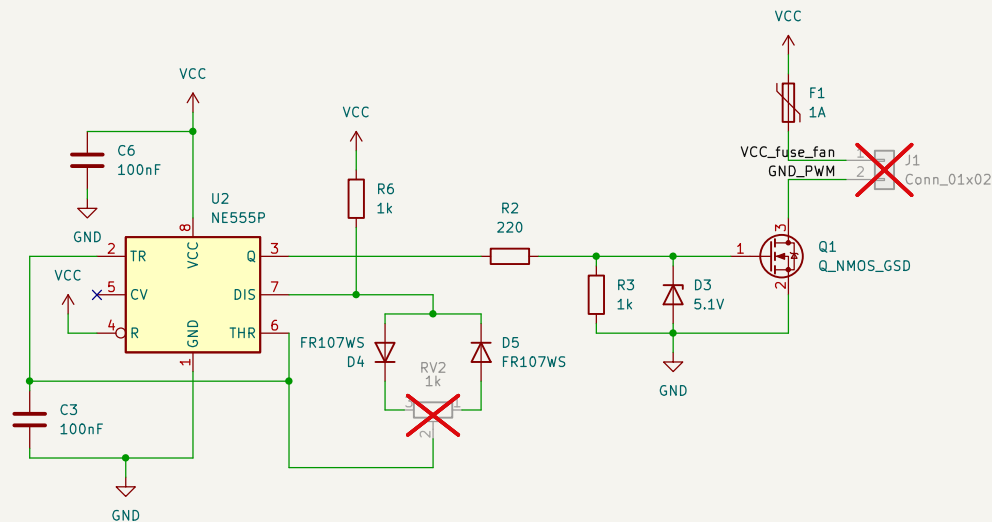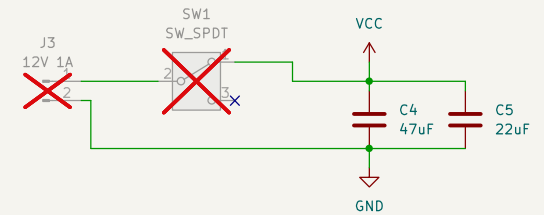
Designer: Mark Kovacs

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File: fume_extractor_controller.kicad_sch
Title: Fume Extractor Controller
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