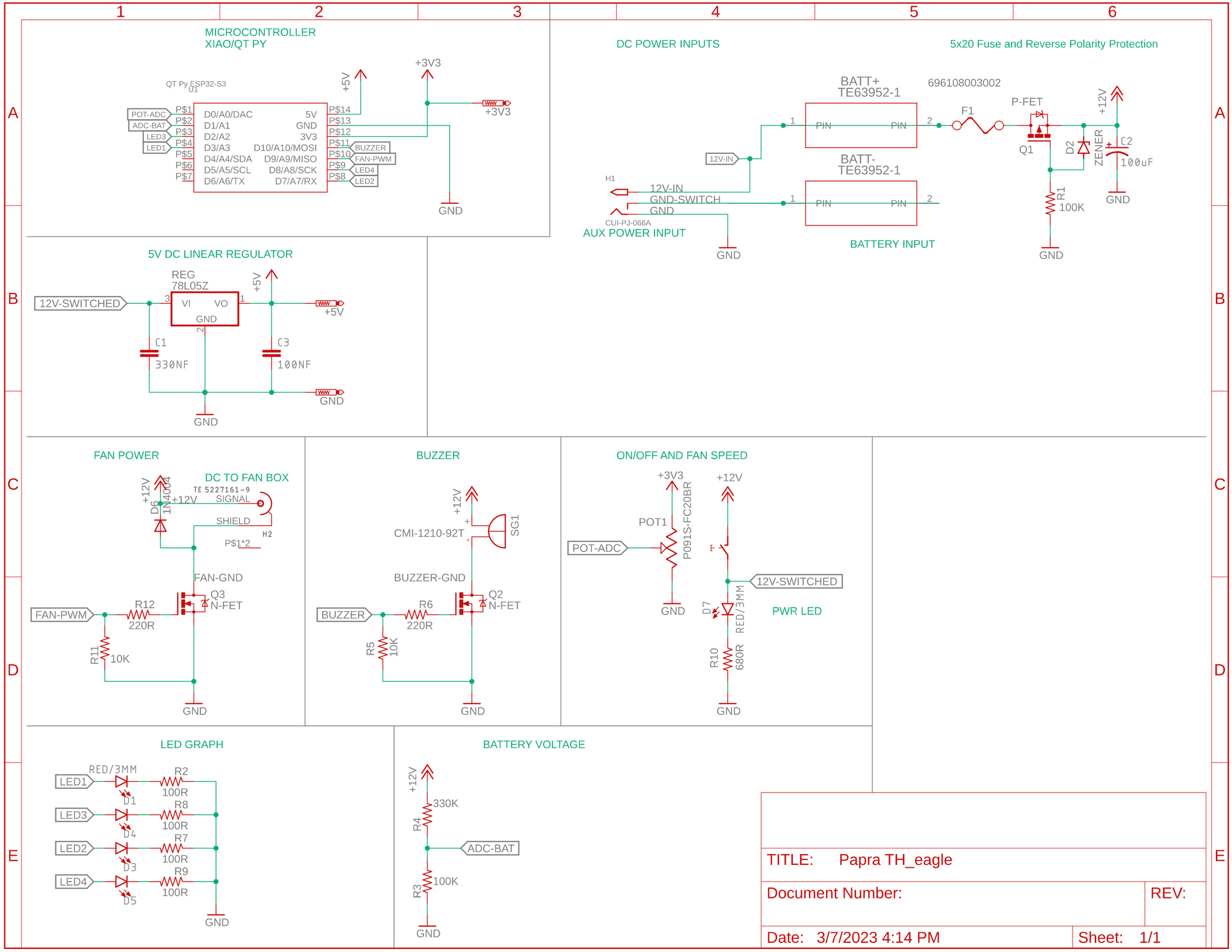
MICROCONTROLLER
XIAO/QT PY
QT Py ESP32-S3
U1
POT-ADC
ADC-BAT
LED3
LED1
P$1
P$2
P$3
P$4
P$5
P$6
P$7
D0/A0/DAC
D1/A1
D2/A2
D3/A3
D4/A4/SDA
D5/A5/SCL
D6/A6/TX
5V
GND
3V3
D10/A10/MOSI
D9/A9/MISO
D8/A8/SCK
D7/A7/RX
P$14
P$13
P$12
P$11
P$10
P$9
P$8
BUZZER
FAN-PWM
LED4
LED2
+5V
+3V3
GND
DC POWER INPUTS
5x20 Fuse and Reverse Polarity Protection
BATT+
TE63952-1
696108003002
F1
P-FET
Q1
+12V
D2
ZENER
C2
100uF
R1
100K
GND
12V-IN
BATT-
TE63952-1
PIN
H1
12V-IN
GND-SWITCH
GND
CUI-PJ-066A
AUX POWER INPUT
BATTERY INPUT
5V DC LINEAR REGULATOR
REG
78L05Z
12V-SWITCHED
VI
VO
C1
330NF
C3
100NF
FAN POWER
DC TO FAN BOX
TE 5227161-9
SIGNAL
SHIELD
H2
P$1*2
D6
1N4004
FAN-GND
Q3
N-FET
FAN-PWM
R12
220R
R11
10K
BUZZER
CMI-1210-92T
SG1
BUZZER-GND
Q2
N-FET
R6
220R
R5
10K
ON/OFF AND FAN SPEED
+3V3
POT1
P091S-FC20BR
POT-ADC
12V-SWITCHED
D7
RED/3MM
PWR LED
R10
680R
LED GRAPH
LED1
LED3
LED2
LED4
D1
D4
D3
D5
R2
100R
R8
100R
R7
100R
R9
100R
BATTERY VOLTAGE
330K
R4
ADC-BAT
100K
R3
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