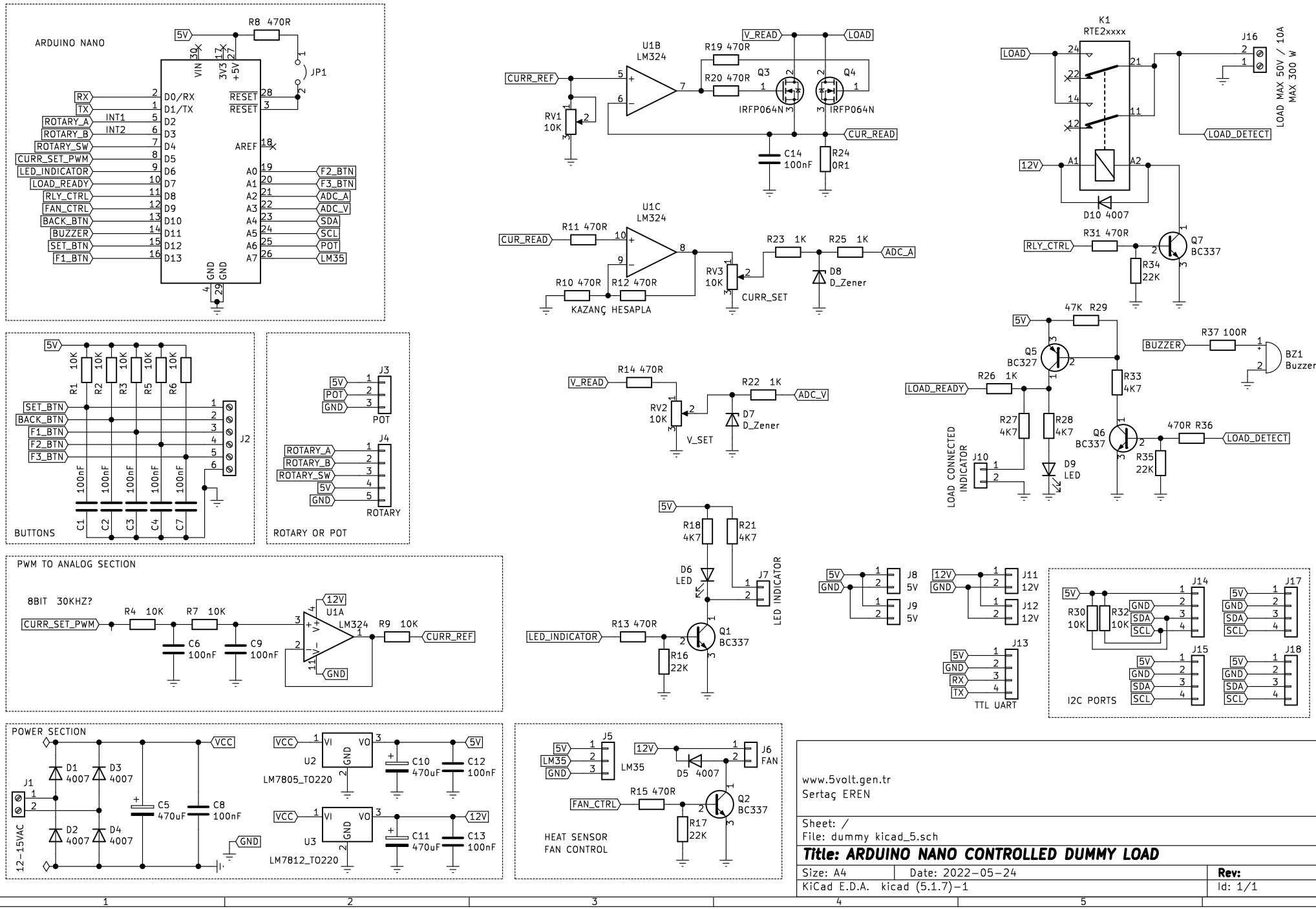
ARDUINO NANO
R8 470R
JP1
RESET
AREF
D0/RX
D1/TX
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
A0
A1
A2
A3
A4
A5
A6
A7
F2_BTN
F3_BTN
ADC_A
ADC_V
SDA
SCL
POT
LM35
U1B
LM324
R19 470R
R20 470R
Q3
Q4
IRFP064N
V_READ
LOAD
CURR_REF
RV1
10K
C14
100nF
R24
0R1
CUR_READ
U1C
R11 470R
R10 470R
R12 470R
KAZANÇ HESAPLA
R23 1K
R25 1K
RV3
CURR_SET
D8
D_Zener
K1
RTE2xxxx
LOAD_DETECT
LOAD MAX 50V / 10A
MAX 300 W
D10 4007
R31 470R
Q7
BC337
R34
22K
47K R29
Q5
BC327
R37 100R
BUZZER
BZ1
Buzzer
R26 1K
R33
4K7
R27
4K7
R28
4K7
Q6
470R R36
R35
22K
D9
LED
J10
LOAD CONNECTED
INDICATOR
R14 470R
RV2
10K
V_SET
R22 1K
D7
D_Zener
BUTTONS
SET_BTN
BACK_BTN
F1_BTN
F2_BTN
F3_BTN
J2
C1
C2
C3
C4
C7
100nF
ROTARY OR POT
J3
POT
J4
ROTARY
ROTARY_A
ROTARY_B
ROTARY_SW
PWM TO ANALOG SECTION
8BIT 30KHZ?
CURR_SET_PWM
R4 10K
R7 10K
C6
100nF
C9
100nF
U1A
LM324
R9 10K
CURR_REF
R18
4K7
R21
4K7
D6
LED
J7
LED INDICATOR
LED_INDICATOR
R13 470R
Q1
BC337
R16
22K
J8
5V
J9
5V
J11
12V
J12
12V
J13
TTL UART
RX
TX
J14
J15
J17
J18
R30
10K
R32
10K
I2C PORTS
POWER SECTION
J1
12-15VAC
D1
4007
D2
4007
D3
4007
D4
4007
C5
470uF
C8
100nF
VCC
GND
U2
LM7805_TO220
C10
470uF
C12
100nF
U3
LM7812_TO220
C11
470uF
C13
100nF
J5
LM35
J6
FAN
D5 4007
R15 470R
Q2
BC337
R17
22K
HEAT SENSOR
FAN CONTROL
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Sertaç EREN
Sheet: /
File: dummy kicad_5.sch
Title: ARDUINO NANO CONTROLLED DUMMY LOAD
Size: A4
Date: 2022-05-24
Rev:
KiCad E.D.A. kicad (5.1.7)-1
Id: 1/1