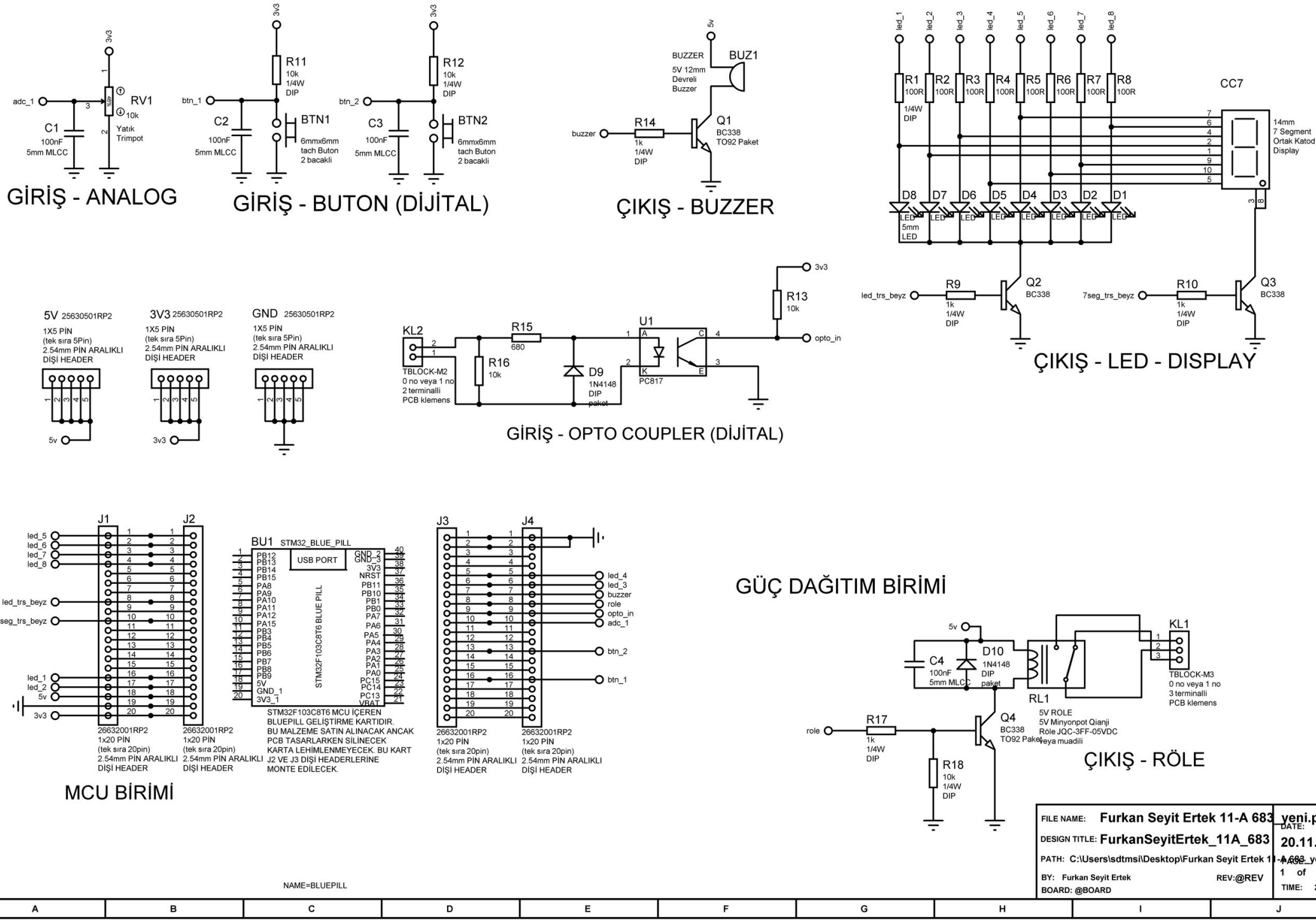
STM32F103 GELİŞTİRME KART

ASELSAN MESLEKİ VE TEKNİK ANADOLU LİSESİ

Furkan Seyit Ertek
11/A 683
14 KASIM 2025


GİRİŞ - ANALOG
adc_1
RV1
10k
C1
100nF
5mm MLCC
Yatık
Trimpot
GİRİŞ - BUTON (DİJİTAL)
btn_1
btn_2
R11
R12
10k
1/4W
DIP
C2
C3
BTN1
BTN2
6mmx6mm
tach Buton
2 bacakli
ÇIKIŞ - BUZZER
BUZZER
BUZ1
5V 12mm
Devreli
Buzzer
buzzer
R14
1k
Q1
BC338
TO92 Paket
ÇIKIŞ - LED - DISPLAY
led_1
led_2
led_3
led_4
led_5
led_6
led_7
led_8
R1
R2
R3
R4
R5
R6
R7
R8
100R
CC7
14mm
7 Segment
Ortak Katod
Display
D8
D7
D6
D5
D4
D3
D2
D1
LED
5mm
LED
led_trs_beyz
7seg_trs_beyz
R9
R10
Q2
Q3
BC338
5V 25630501RP2
1X5 PİN
(tek sıra 5Pin)
2.54mm PİN ARALIKLI
DİŞİ HEADER
3V3 25630501RP2
GND 25630501RP2
GİRİŞ - OPTO COUPLER (DİJİTAL)
KL2
TBLOCK-M2
0 no veya 1 no
2 terminalli
PCB klemens
R15
680
R16
10k
D9
1N4148
DIP
paket
U1
PC817
R13
opto_in
MCU BİRİMİ
J1
J2
BU1
STM32_BLUE_PILL
USB PORT
STM32F103C8T6 BLUE PILL
STM32F103C8T6 MCU İÇEREN
BLUEPILL GELİŞTİRME KARTIDIR.
BU MALZEME SATIN ALINACAK ANCAK
PCB TASARLARKEN SİLİNECEK
KARTA LEHİMLENMEYECEK. BU KART
J2 VE J3 DİŞİ HEADERLERİNE
MONTE EDİLECEK.
26632001RP2
1x20 PİN
(tek sıra 20pin)
2.54mm PİN ARALIKLI
DİŞİ HEADER
J3
J4
NAME=BLUEPILL
GÜÇ DAĞITIM BİRİMİ
C4
100nF
5mm MLCC
D10
1N4148
DIP
paket
RL1
KL1
TBLOCK-M3
0 no veya 1 no
3 terminalli
PCB klemens
R17
R18
Q4
BC338
TO92 Paket
5V ROLE
5V Minyonpot Qianji
Röle JQC-3FF-05VDC
veya muadili
ÇIKIŞ - RÖLE
FILE NAME: Furkan Seyit Ertek 11-A 683_yeni.pdspr
DESIGN TITLE: FurkanSeyitErtek_11A_683
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BY: Furkan Seyit Ertek
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DATE: 20.11.2025
PAGE: 1 of 1
TIME: 23:58:38

RV1
R4
R11
3V3
R13
C2
R12
R9
Q3
Q2
D8
D7
D6
D5
D4
D3
D2
D1
R2
R10
D9
R15
R16
BTN1
C1
U1
KL2
KL1
J4
J3
J2
J1
R14
R7
Q1
BUZ1
R8
D10
Q4
5V
GND
aselsan
Furkan Seyit Ertek
11-A 683

Bill Of Materials for mdpödev_683_11/A

Design Title	mdpödev_683_11/A
Author	Furkan Seyit Ertek
Document Number	
Revision	
Design Created	14 Kasım 2025 Cuma
Design Last Modified	14 Kasım 2025 Cuma
Total Parts In Design	53

0 Modules

Quantity	References	Value	Stock Code	Unit Cost
Sub-totals:				€0,00

4 Capacitors

Quantity	References	Value	Stock Code	Unit Cost
4	C1-C4	100nF		
Sub-totals:				€0,00

18 Resistors

Quantity	References	Value	Stock Code	Unit Cost
8	R1-R8	100R		
4	R9-R10,R14,R17	1k		
5	R11-R13, R16,R18	10k		
1	R15	680		
Sub-totals:				€0,00

1 Integrated Circuits

Quantity	References	Value	Stock Code	Unit Cost
1	U1	PC817		
Sub-totals:				€0,00

4 Transistors

Quantity	References	Value	Stock Code	Unit Cost
4	Q1-Q4	BC338		
Sub-totals:				€0,00

10 Diodes

Quantity	References	Value	Stock Code	Unit Cost
8	D1-D8	LED		
2	D9-D10	1N4148		
Sub-totals:				€0,00

16 Miscellaneous

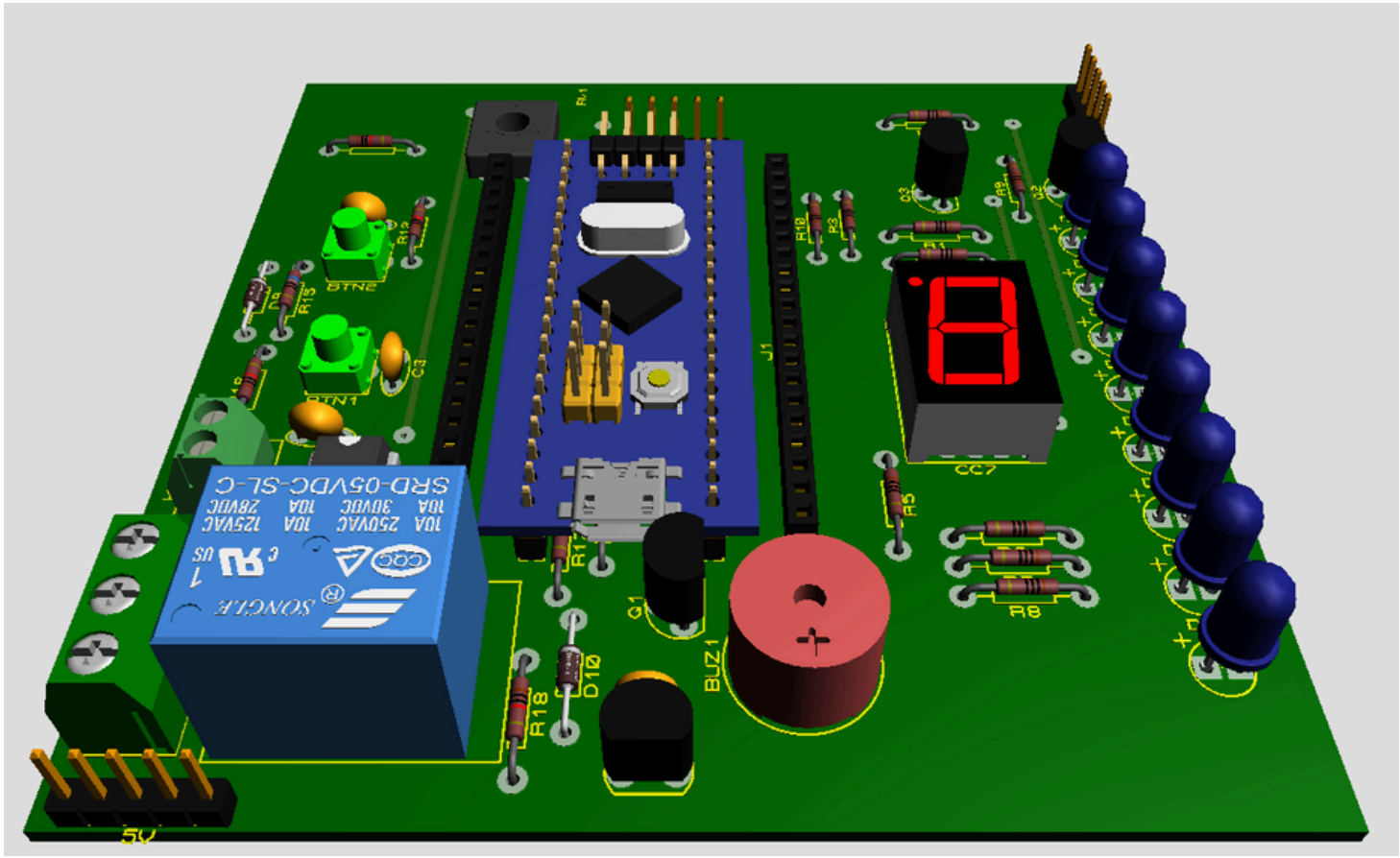
Quantity	References	Value	Stock Code	Unit Cost
3	3V3,5V,GND	25630501RP2	NorComp 25630501RP2	
3	BTN1-BTN2,CC7			
1	BU1	STM32_BLUE_PILL		
1	BUZ1	BUZZER		
4	J1-J4	26632001RP2	NorComp 26632001RP2	
1	KL1	TBLOCK-M3		
1	KL2	TBLOCK-M2		
1	RL1	RLY-SPCO		
1	RV1	10k		
Sub-totals:				€0,00

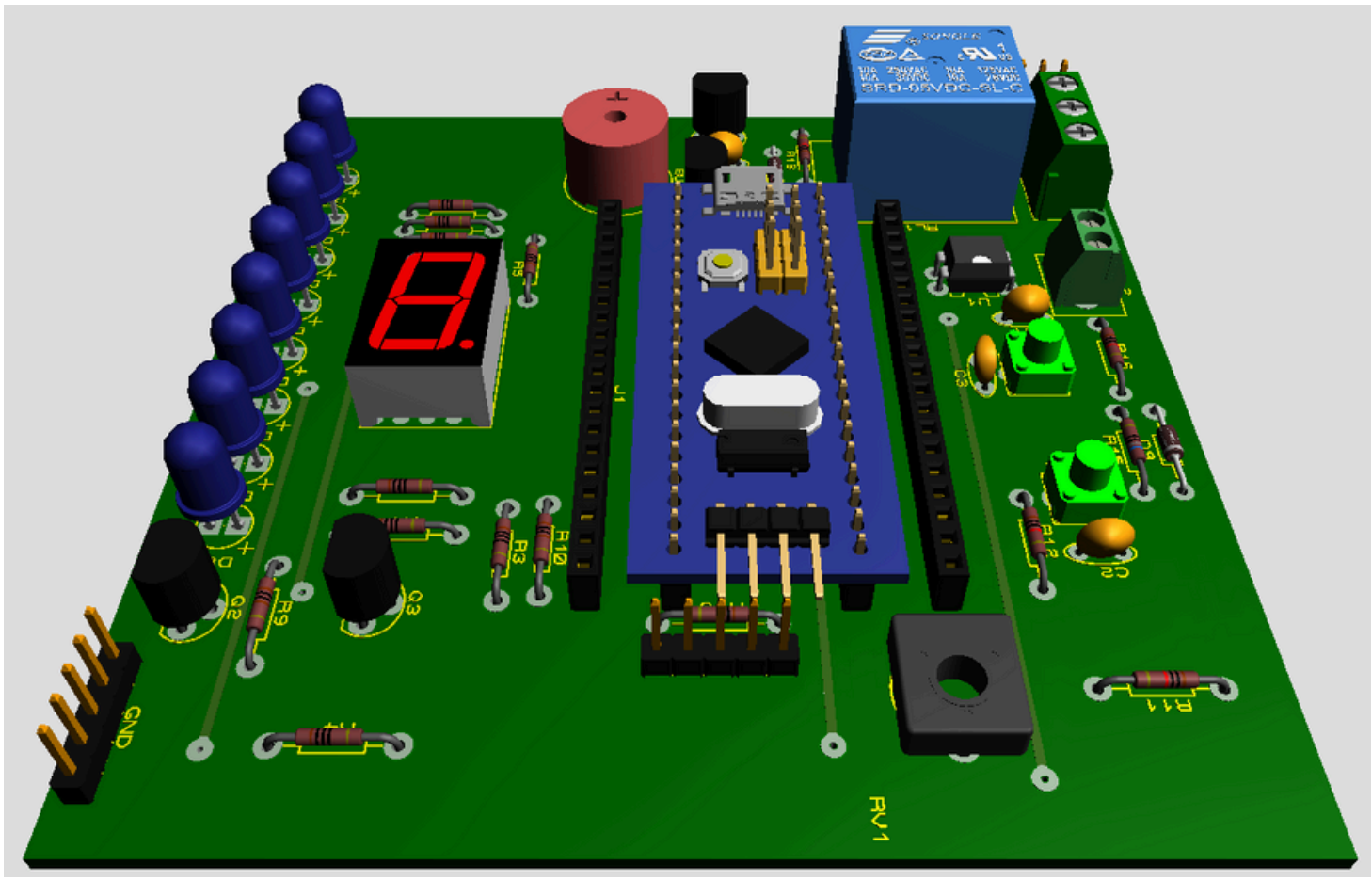
Totals:	€0,00

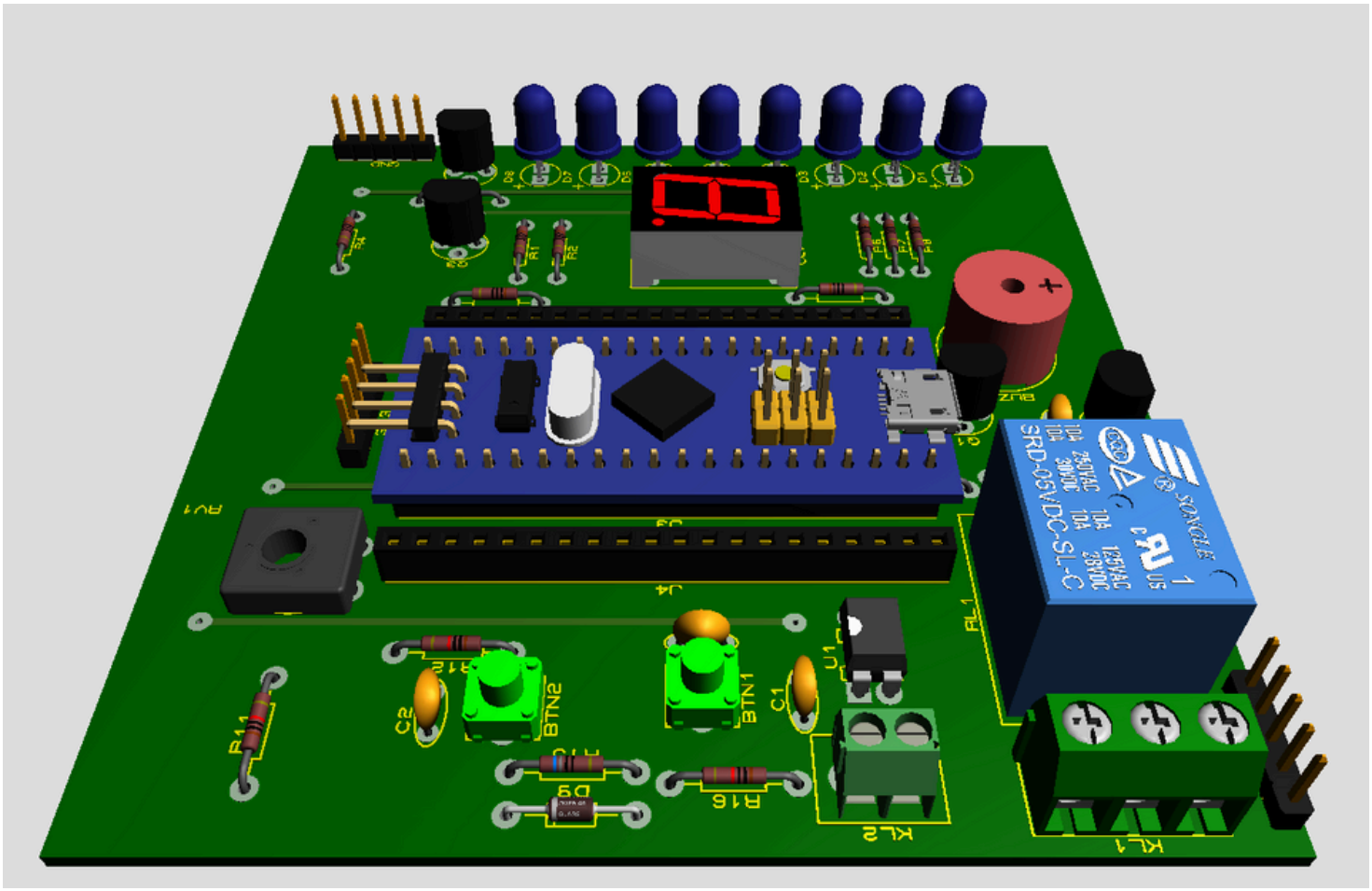
14 Kasım 2025 Cuma 23:22:48

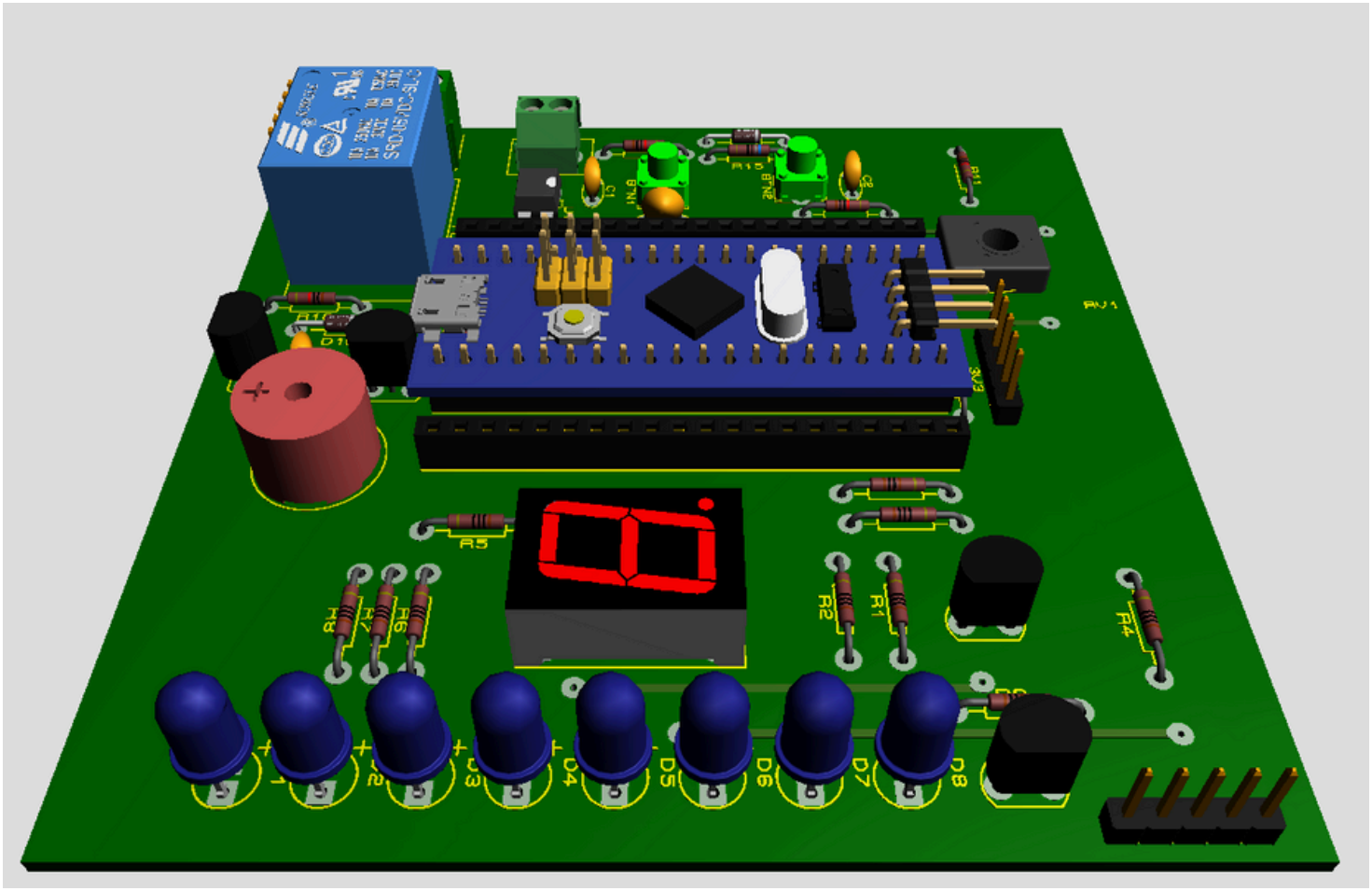
RV1
R11
C2
R12
BTN2
D9
R15
R16
BTN1
C3
C1
U1
RL1
SRD-05VDC-SL-C
SONGLE
R17
R14
D10
R18
Q1
BUZ1
3V3
R13
J2
J1
R10
R3
Q3
R4
R1
R2
R9
Q2
GND
D8
D7
D6
D5
D4
D3
R5
R6
R7
R8

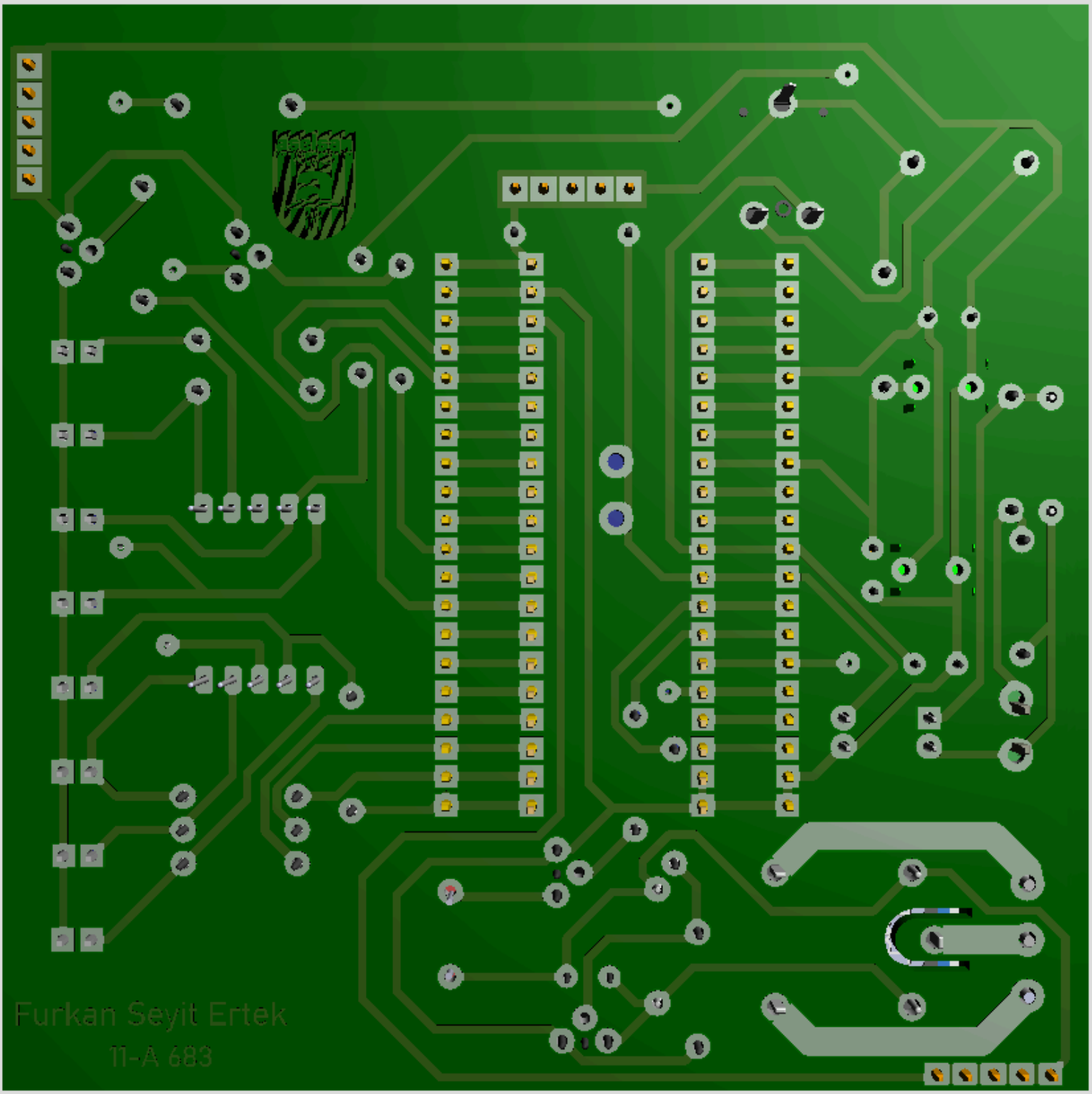
RV1
R11
C2
R12
BTN2
D9
R15
R16
BTN1
C3
C1
U1
RL1
SRD-05VDC-SL-C
SONGLE
R18
D10
Q1
BUZ1
3V3
J1
R10
R3
Q3
R4
R1
R2
R9
Q2
GND
D8
D7
D6
D5
D4
D3
R5
R6
R7
R8


SRD-05VDC-SL-C
10A 250VAC 10A 125VAC
10A 30VDC 10A 28VDC
SONGLE
BTN2
BTN1
J1
BUZ1
Q1
D10
R18
R8
5V


SRD-05VDC-SL-C
J1
Q2
Q3
R9
R3
R10
GND
RV1


SRD-05VDC-SL-C
BTN1
BTN2
KL1
KL2
U1
C1
C2
R16
D9
R11
RV1
J4
J3
BUZ
RL1


R5
R2
R1
R4
D4
D5
D6
D7
D8
RV1
3V3


Furkan Seyit Ertek
11-A 683