ASELSAN MESLEKİ TEKNİK VE ANADOLU LİSESİ

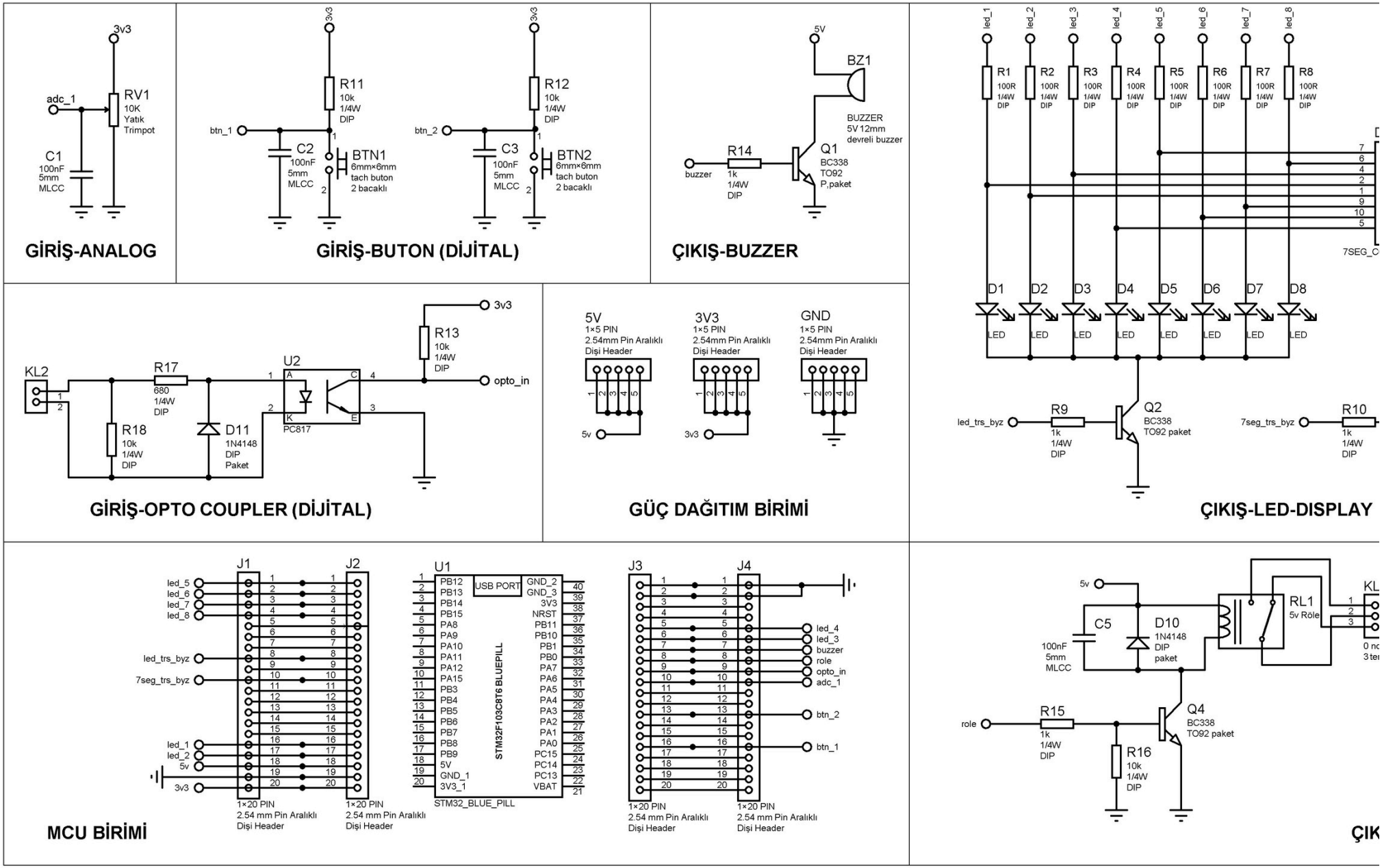
İSİM:**Fatma Asra Sevinç**

SINIF:**11-B**

NUMARA:**659**

DERS ÖĞRETMENİ:**MUSTAFA SEYHAN**

STM32F103 MİKRODENETLEYİCİ KART


3v3
adc_1
RV1
10K
Yatık
Trimpot
C1
100nF
5mm
MLCC
GİRİŞ-ANALOG
R11
10k
1/4W
DIP
btn_1
C2
100nF
5mm
MLCC
BTN1
6mm×6mm
tach buton
2 bacaklı
R12
btn_2
C3
BTN2
GİRİŞ-BUTON (DİJİTAL)
5V
BZ1
BUZZER
5V 12mm
devreli buzzer
R14
1k
buzzer
Q1
BC338
TO92
P,paket
ÇIKIŞ-BUZZER
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
D1
D2
D3
D4
D5
D6
D7
D8
LED
7SEG_C
KL2
R17
680
U2
R13
opto_in
R18
D11
1N4148
DIP
Paket
PC817
GİRİŞ-OPTO COUPLER (DİJİTAL)
5V
1×5 PIN
2.54mm Pin Aralıklı
Dişi Header
3V3
GND
GÜÇ DAĞITIM BİRİMİ
led_trs_byz
R9
Q2
BC338
TO92 paket
7seg_trs_byz
R10
ÇIKIŞ-LED-DISPLAY
J1
J2
led_5
led_6
led_7
led_8
led_1
led_2
5v
1×20 PIN
2.54 mm Pin Aralıklı
Dişi Header
U1
USB PORT
STM32F103C8T6 BLUEPILL
STM32_BLUE_PILL
J3
J4
led_4
led_3
buzzer
role
opto_in
adc_1
btn_2
btn_1
MCU BİRİMİ
C5
100nF
5mm
MLCC
D10
1N4148
DIP
paket
RL1
5v Röle
R15
R16
Q4
BC338
TO92 paket
ÇIK
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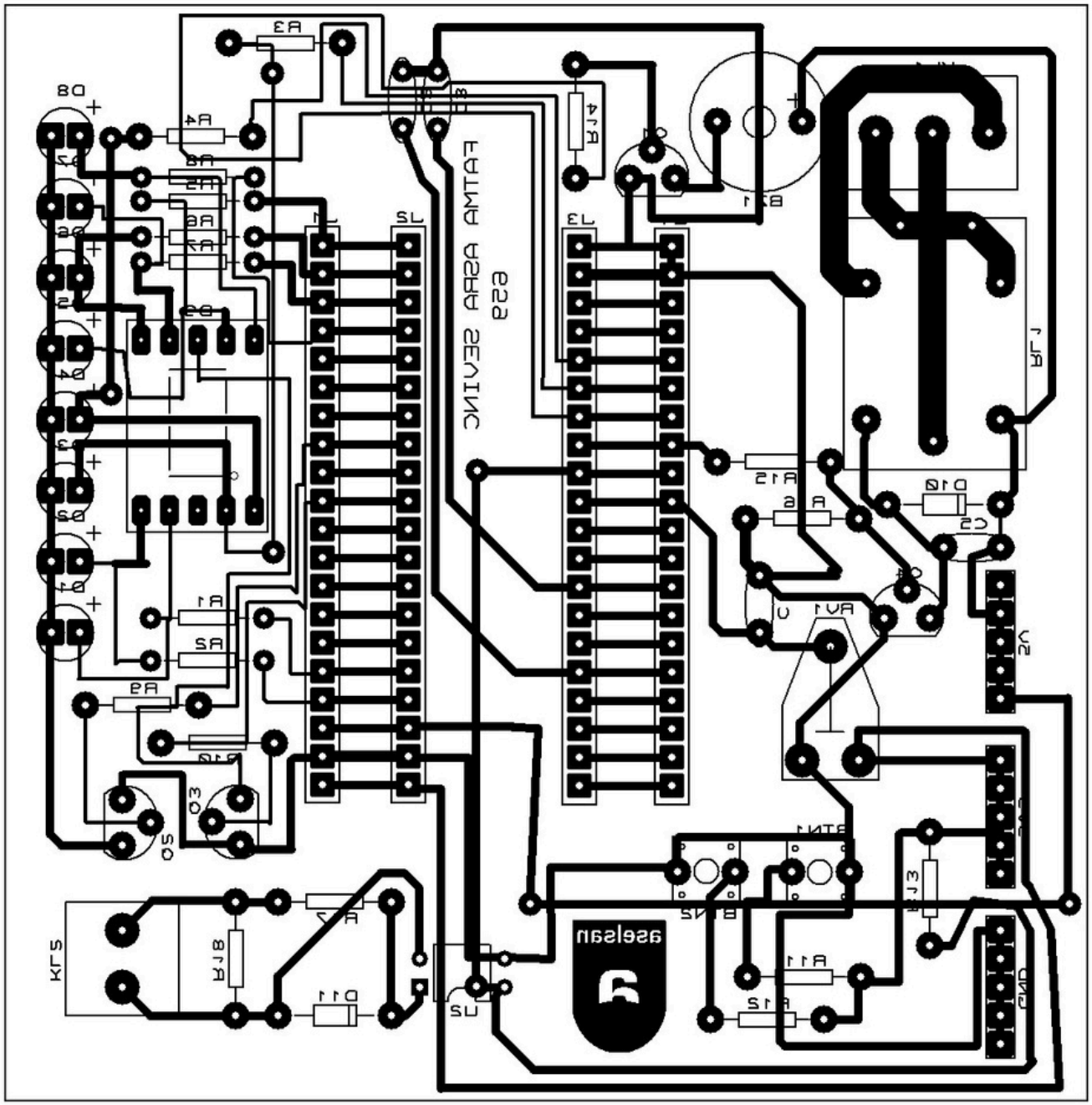
BY: @AUTHOR
BOARD: @BOARD

DEVRE ŞEMASI



YERLEŞİM PLANI (OVERLAY)

Bill Of Materials for sema_dizaynı[1]yeni12

Design Title	sema_dizaynı[1]yeni12
Author	
Document Number	
Revision	
Design Created	15 Kasım 2025 Cumartesi
Design Last Modified	15 Kasım 2025 Cumartesi
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-C3,C5	100nF	Farnell 317-287	
Sub-totals:				₺0,00

18 Resistors

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

2 Integrated Circuits

Quantity	References	Value	Stock Code	Unit Cost
1	U1	STM32_BLUE_PILL		
1	U2	PC817		
Sub-totals:				₺0,00

4 Transistors

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

11 Diodes

Quantity	References	Value	Stock Code	Unit Cost
8	D1-D8	LED		
1	D9	7SEG_CC_14MM		
2	D10-D11	1N4148		
Sub-totals:				₺0,00

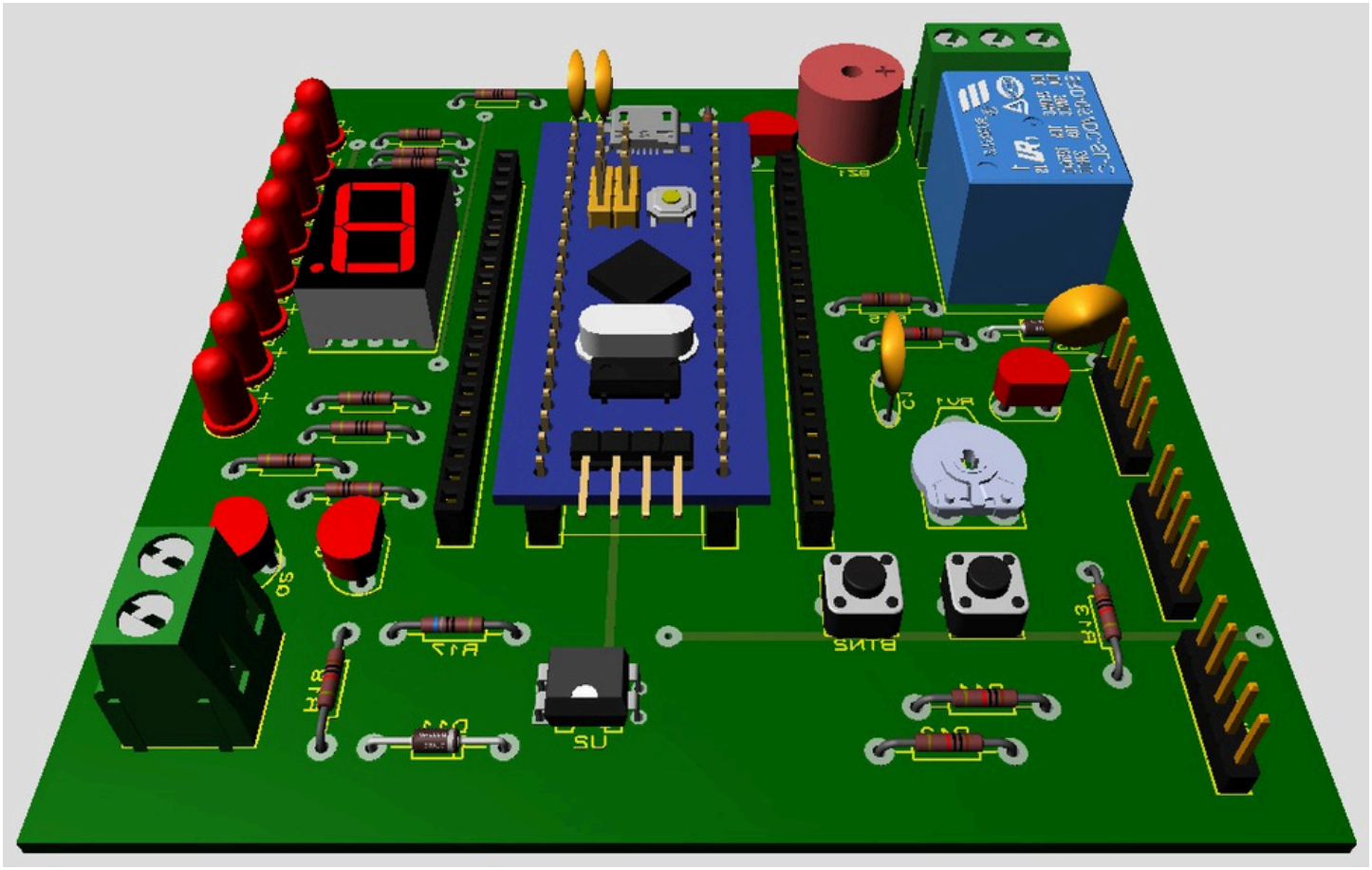
14 Miscellaneous

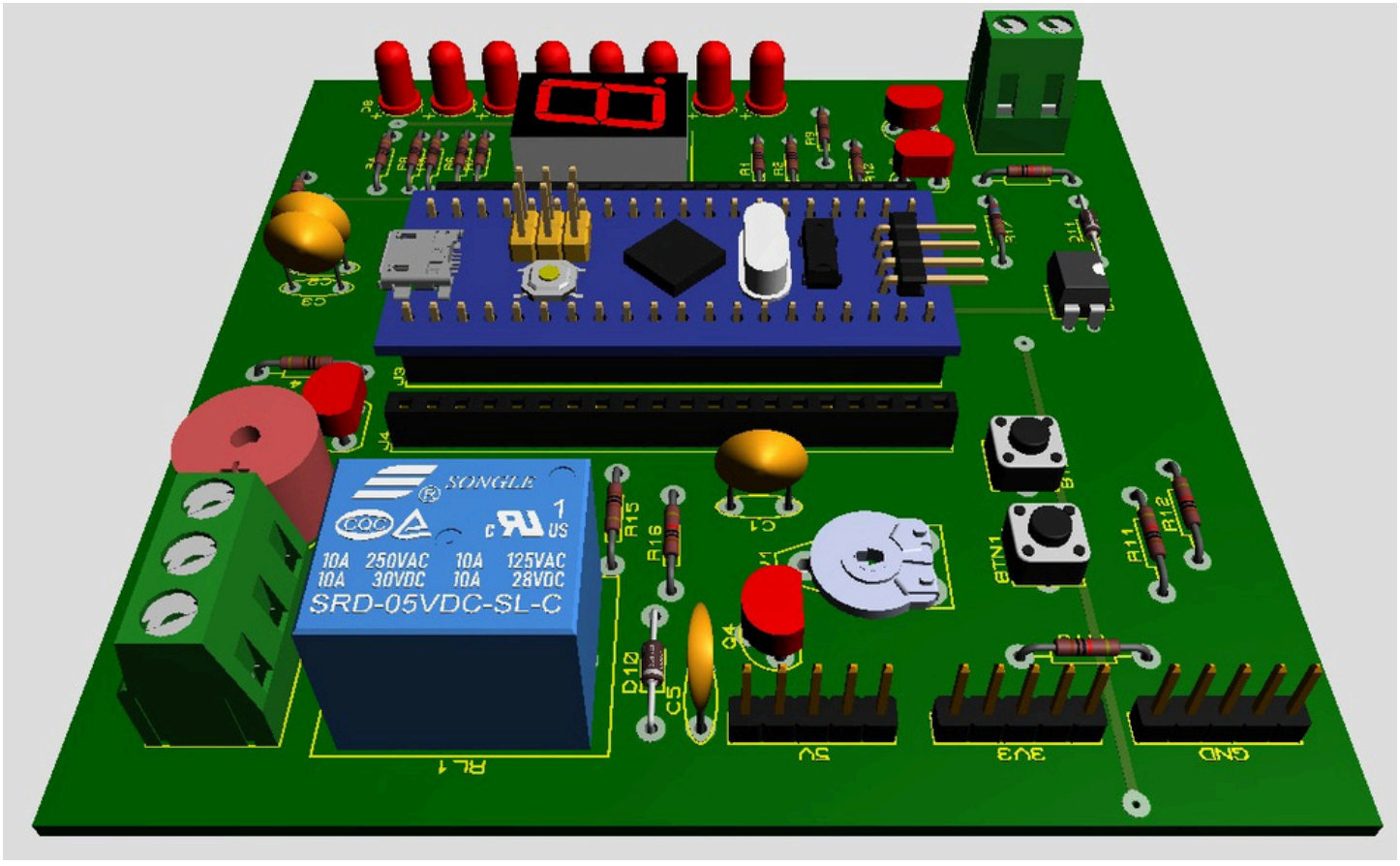
Quantity	References	Value	Stock Code	Unit Cost
3	3V3,5V,GND		NorComp 26830501RP2	
5	BTN1-BTN2,BZ1,KL1-KL2			
4	J1-J4		NorComp 25832001RP2	
1	RL1	5vRöle		
1	RV1	10K	Digikey 3214G-103E DKR-ND	
Sub-totals:				₺0,00

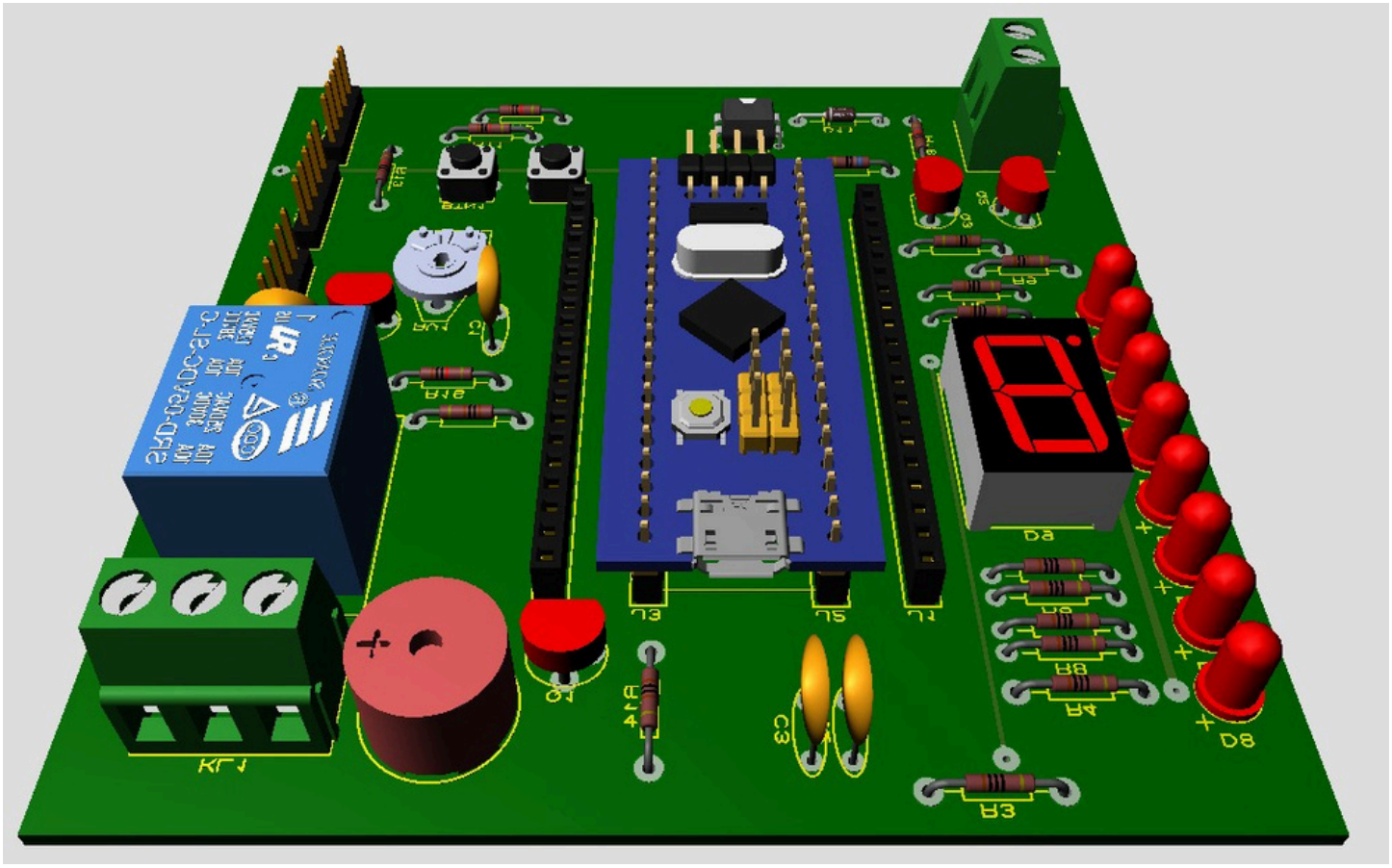
Totals: ₺0,00

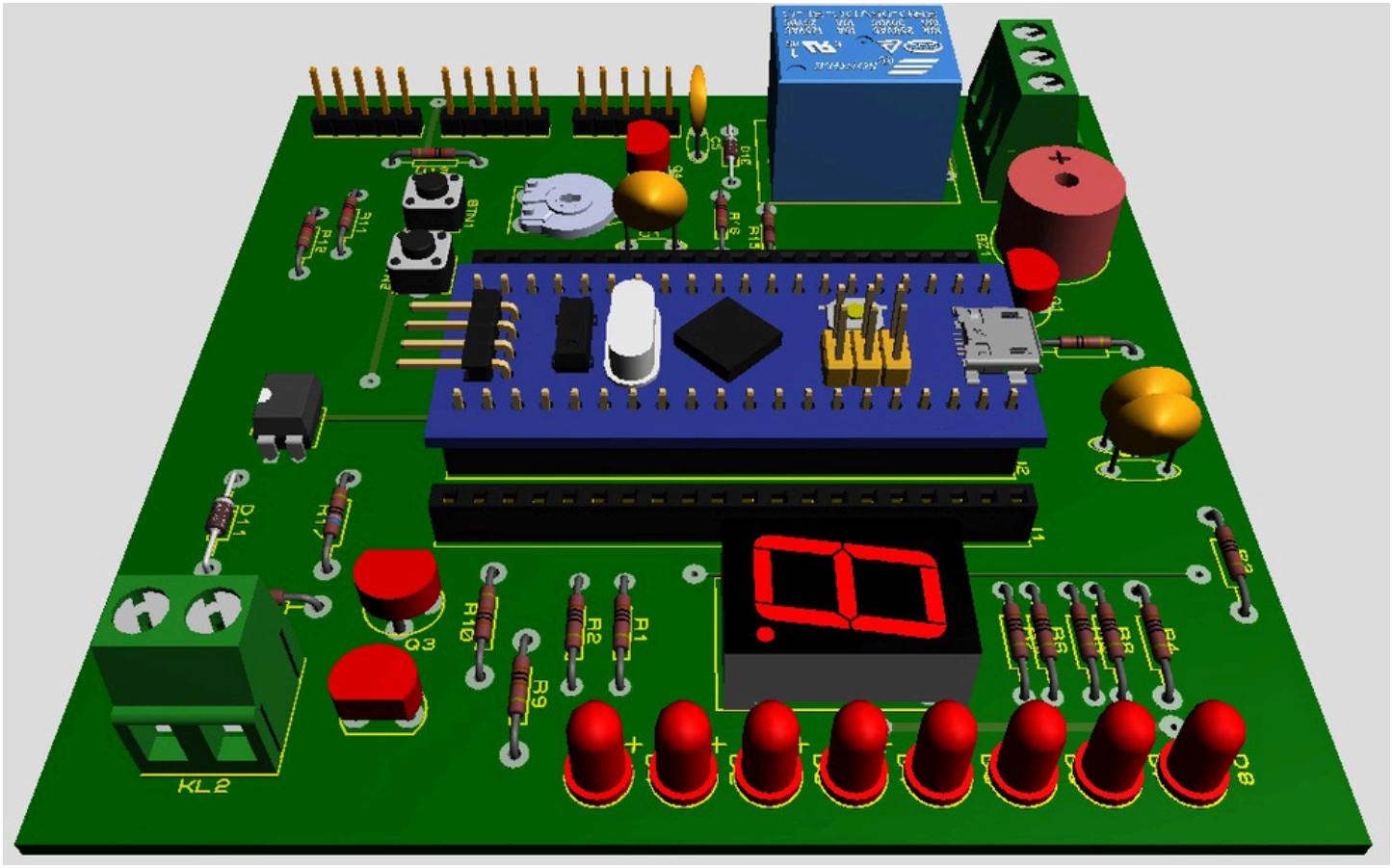
15 Kasım 2025 Cumartesi 00:05:43

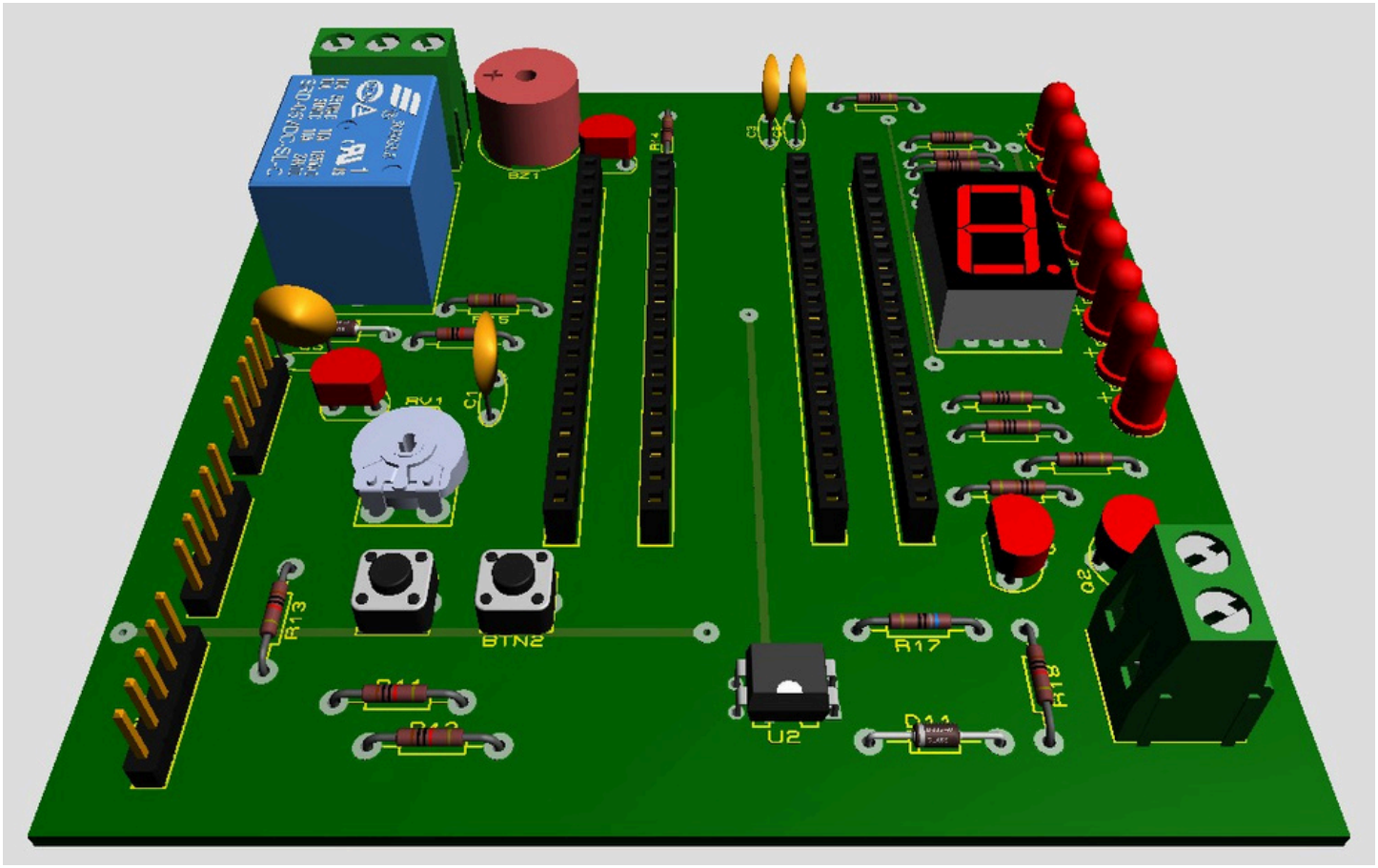
MALZEME LİSTESİ (BILL OF MATERIALS)



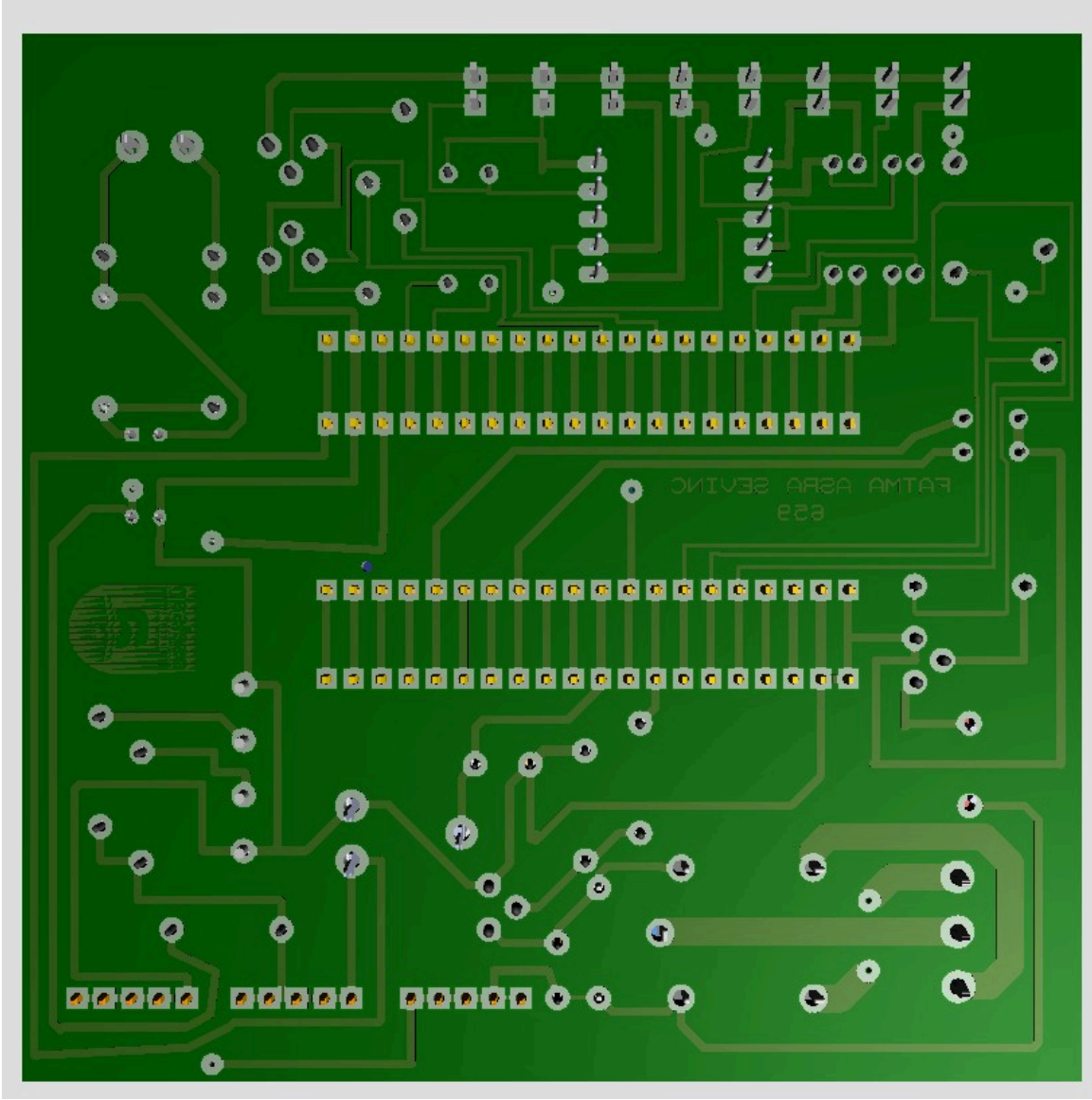

SONGLE
10A 250VAC 10A 125VAC
10A 30VDC 10A 28VDC
SRD-05VDC-SL-C
5V
3V3
GND






BZ1
RV1
C1
R13
BTN2
R17
U2
D11
Q2

SRD-05VDC-SL-C
R3
C3
R14
B21
D8
R4
R8
R6
R1
R2
R9
R10
Q5
R17
R18
D11
BTN1
R13
R11
R12
R15
R16
D10
C5
Q4
RV1


FATMA ASRA SEVINC
BSS