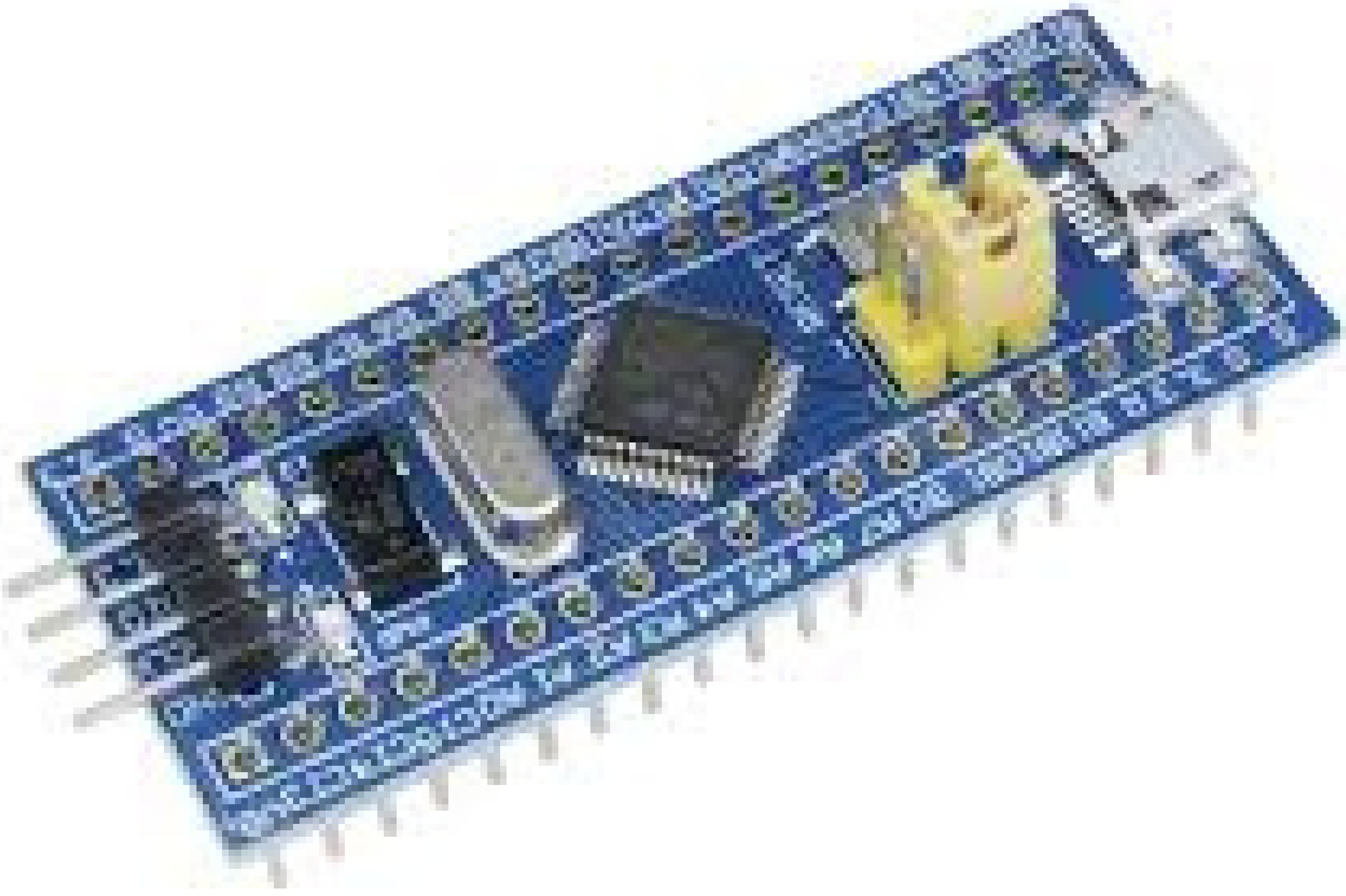
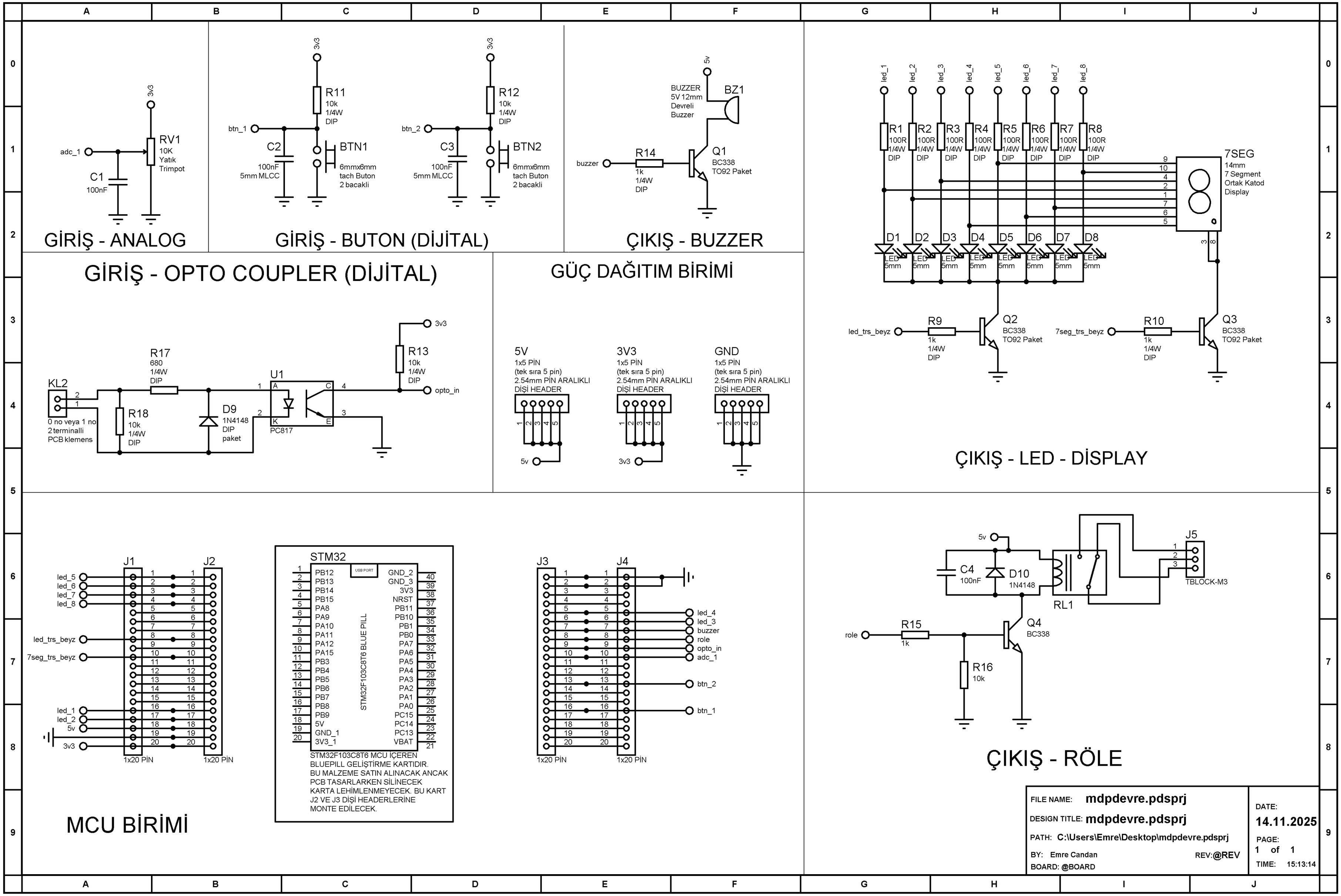
ASELSAN MESLEKİ TEKNİK VE ANADOLU LİSESİ

STM32F103C8T6 GELİŞTİRME KARTI



Hazırlayan: Emre Candan
Numara: 692
Sınıf: 11/A


GİRİŞ - ANALOG
3v3
adc_1
RV1
10K
Yatık
Trimpot
C1
100nF
GİRİŞ - BUTON (DİJİTAL)
3v3
R11
10k
1/4W
DIP
btn_1
C2
100nF
5mm MLCC
BTN1
6mmx6mm
tach Buton
2 bacakli
3v3
R12
10k
1/4W
DIP
btn_2
C3
100nF
5mm MLCC
BTN2
6mmx6mm
tach Buton
2 bacakli
ÇIKIŞ - BUZZER
5v
BUZZER
5V 12mm
Devreli
Buzzer
BZ1
buzzer
R14
1k
1/4W
DIP
Q1
BC338
TO92 Paket
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
1/4W
DIP
7SEG
14mm
7 Segment
Ortak Katod
Display
D1
D2
D3
D4
D5
D6
D7
D8
LED
5mm
led_trs_beyz
R9
1k
1/4W
DIP
Q2
BC338
TO92 Paket
7seg_trs_beyz
R10
1k
1/4W
DIP
Q3
BC338
TO92 Paket
ÇIKIŞ - LED - DİSPLAY
GİRİŞ - OPTO COUPLER (DİJİTAL)
3v3
R13
10k
1/4W
DIP
opto_in
R17
680
1/4W
DIP
KL2
0 no veya 1 no
2 terminalli
PCB klemens
R18
10k
1/4W
DIP
D9
1N4148
DIP
paket
U1
PC817
GÜÇ DAĞITIM BİRİMİ
5V
1x5 PİN
(tek sıra 5 pin)
2.54mm PİN ARALIKLI
DİŞİ HEADER
5v
3V3
1x5 PİN
(tek sıra 5 pin)
2.54mm PİN ARALIKLI
DİŞİ HEADER
3v3
GND
1x5 PİN
(tek sıra 5 pin)
2.54mm PİN ARALIKLI
DİŞİ HEADER
J1
J2
led_5
led_6
led_7
led_8
led_trs_beyz
7seg_trs_beyz
led_1
led_2
5v
3v3
1x20 PİN
1x20 PİN
STM32
USB PORT
STM32F103C8T6 BLUE PILL
PB12
PB13
PB14
PB15
PA8
PA9
PA10
PA11
PA12
PA15
PB3
PB4
PB5
PB6
PB7
PB8
PB9
5V
GND_1
3V3_1
GND_2
GND_3
3V3
NRST
PB11
PB10
PB1
PB0
PA7
PA6
PA5
PA4
PA3
PA2
PA1
PA0
PC15
PC14
PC13
VBAT
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.
J3
J4
led_4
led_3
buzzer
role
opto_in
adc_1
btn_2
btn_1
1x20 PİN
1x20 PİN
MCU BİRİMİ
5v
C4
100nF
D10
1N4148
RL1
J5
TBLOCK-M3
role
R15
1k
Q4
BC338
R16
10k
ÇIKIŞ - RÖLE
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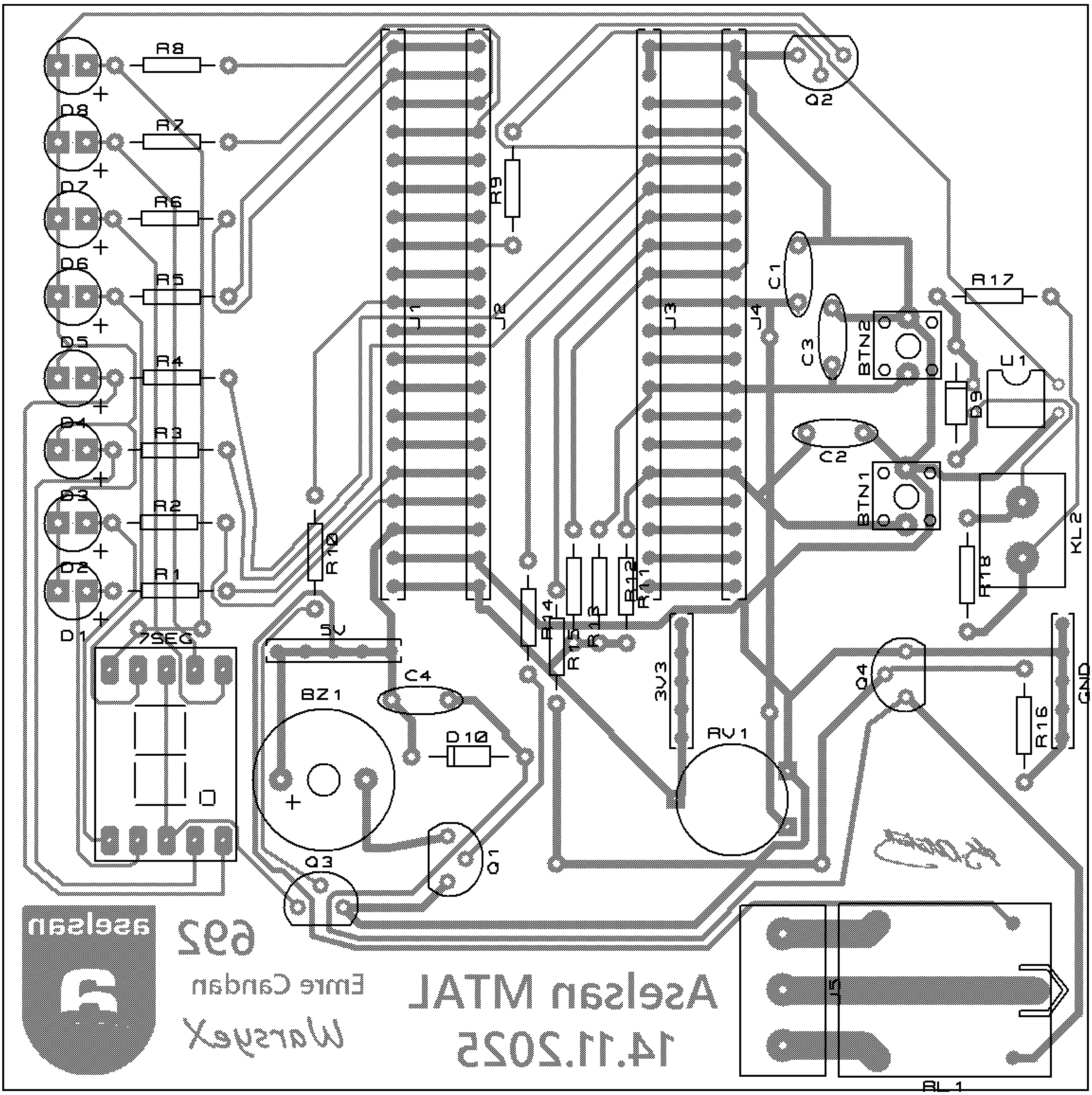
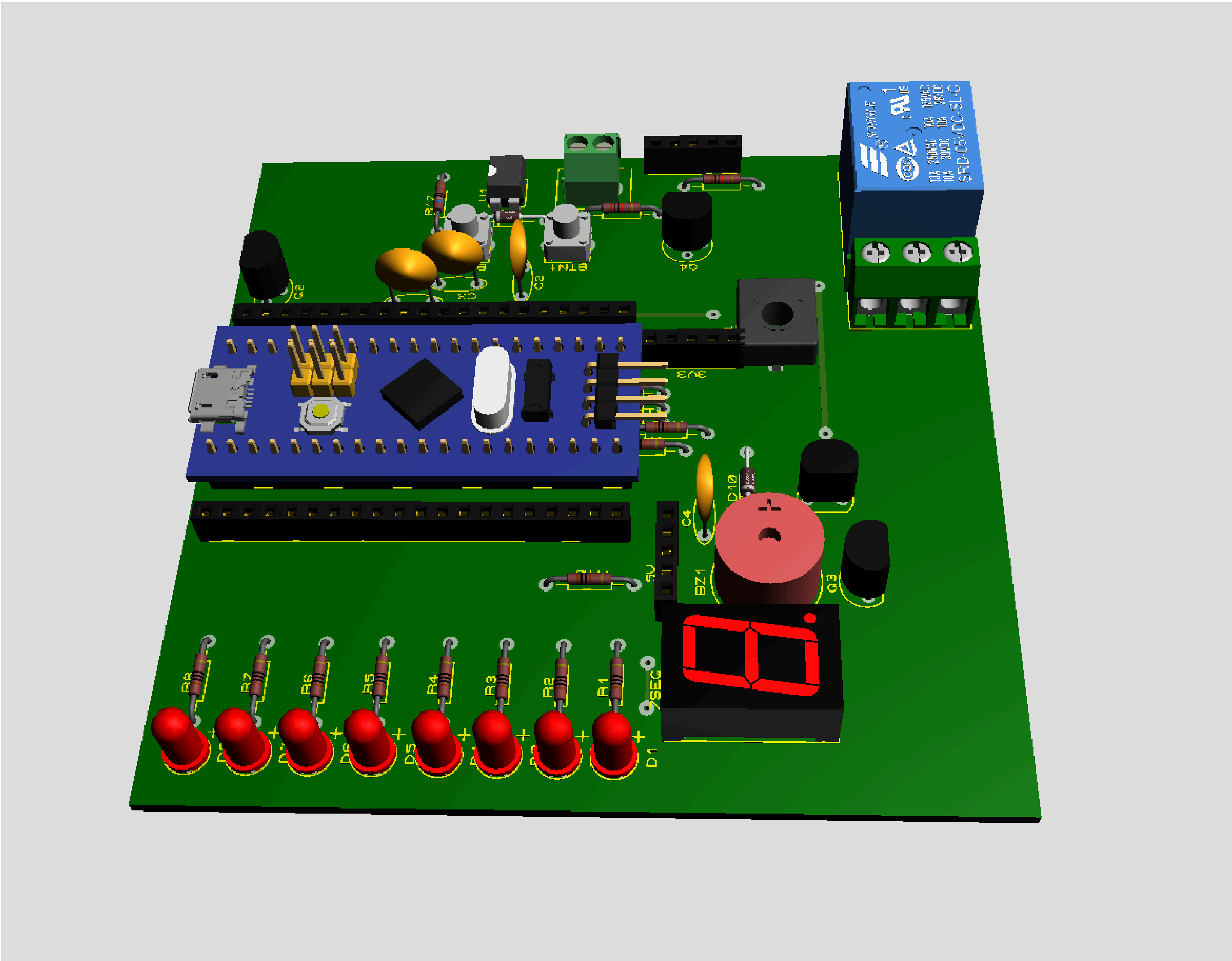
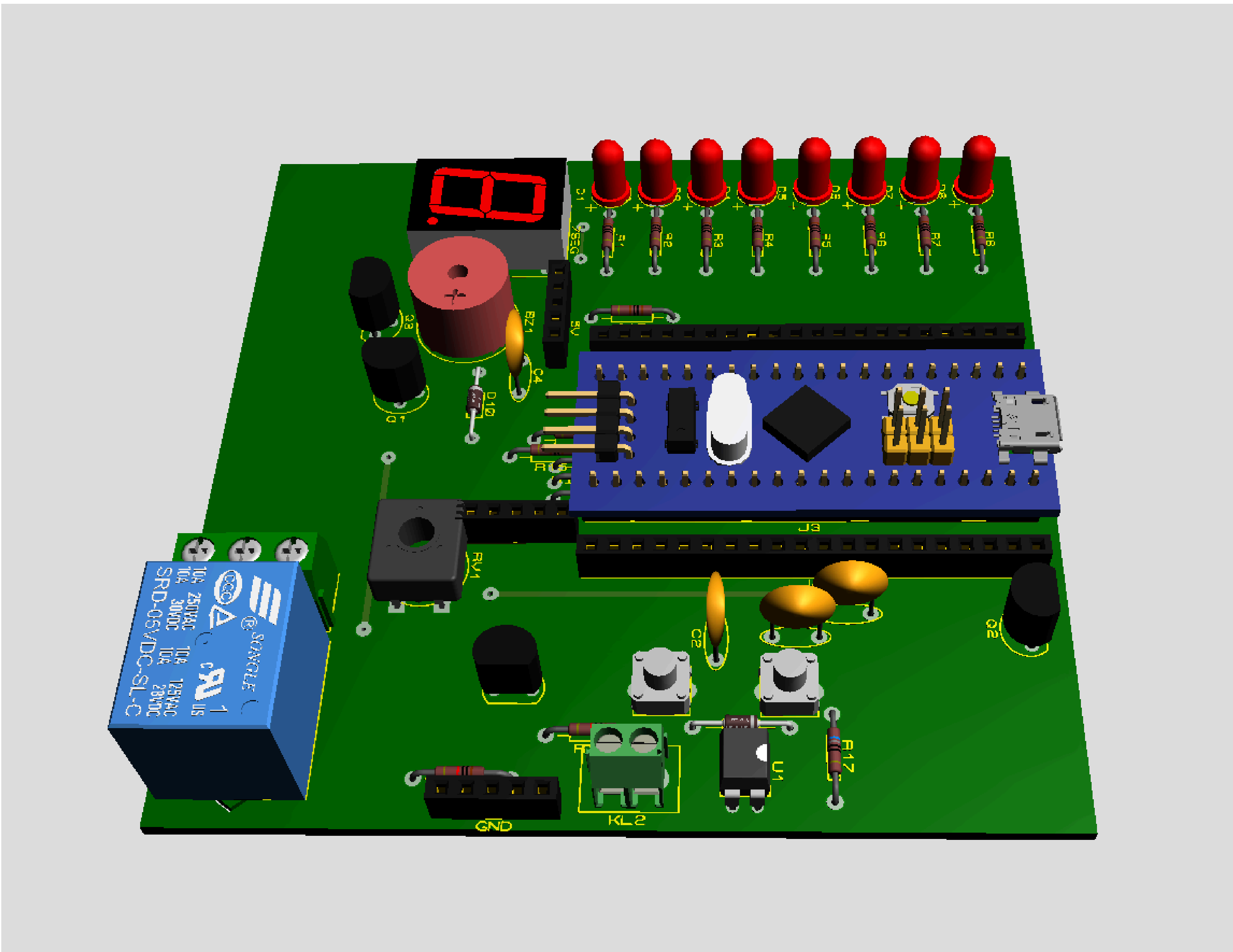
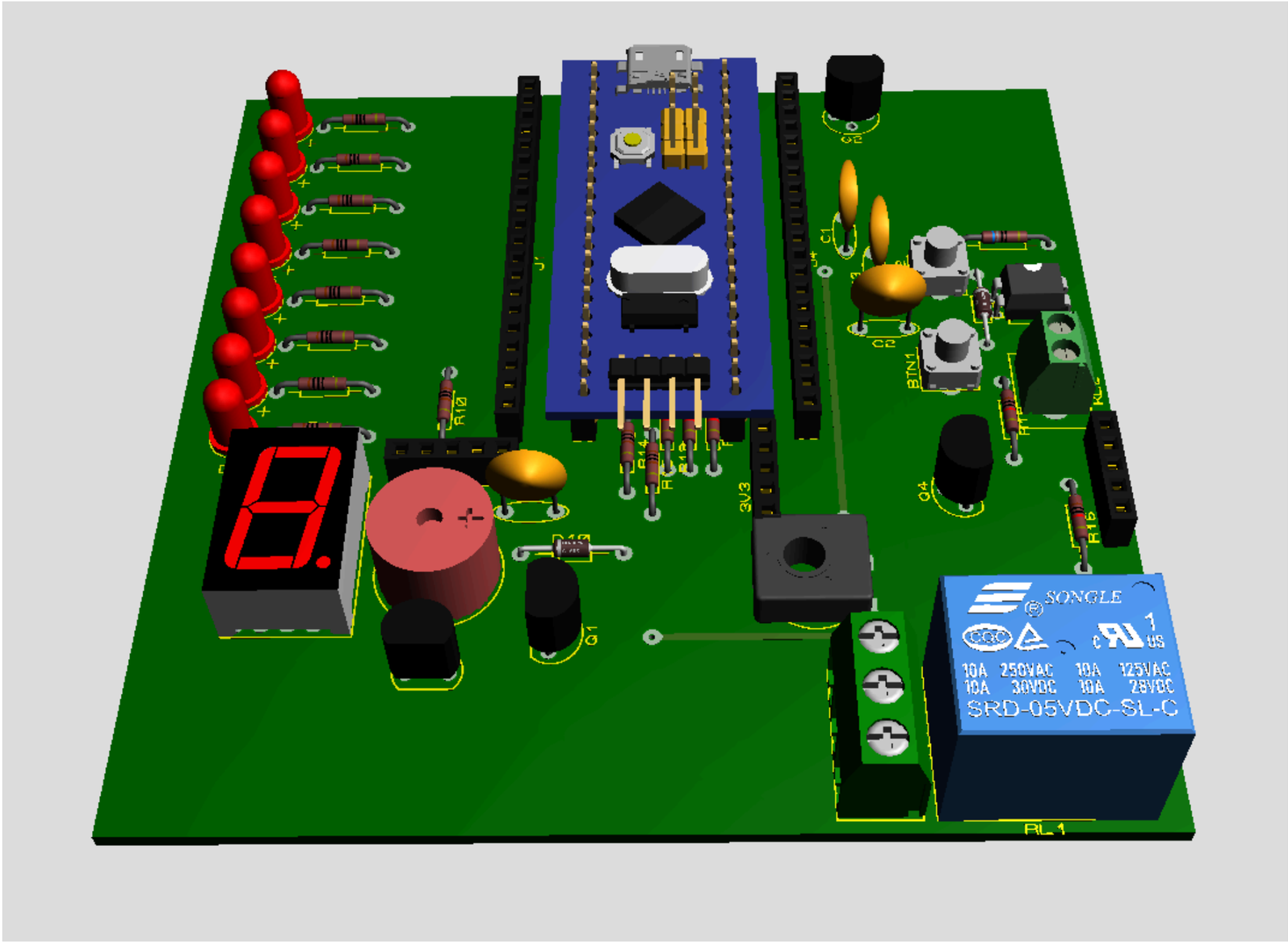
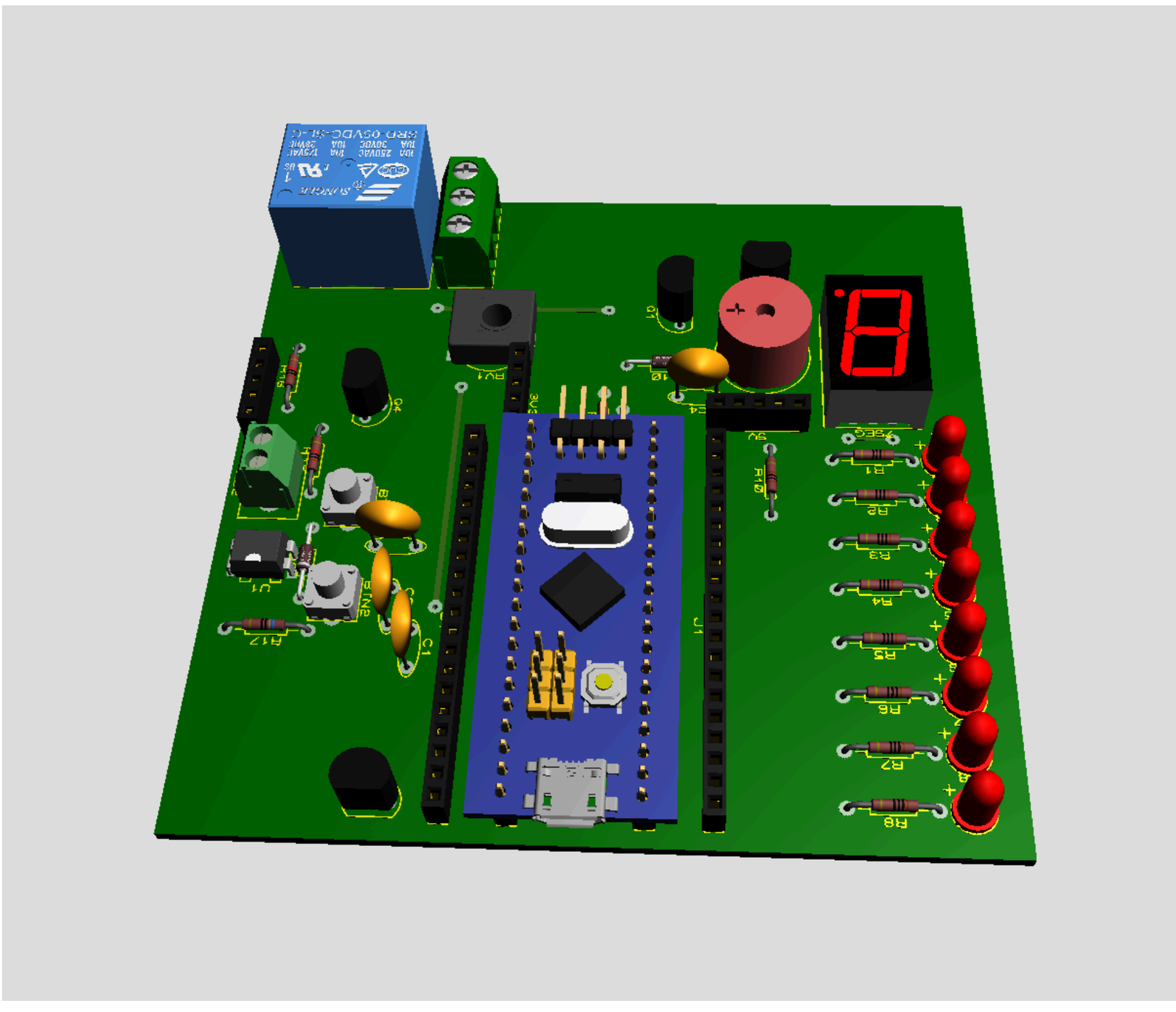
DESIGN TITLE: mdpdevre.pdsprj
PATH: C:\Users\Emre\Desktop\mdpdevre.pdsprj
BY: Emre Candan
REV:@REV
BOARD: @BOARD
DATE:
14.11.2025
PAGE:
1 of 1
TIME: 15:13:14

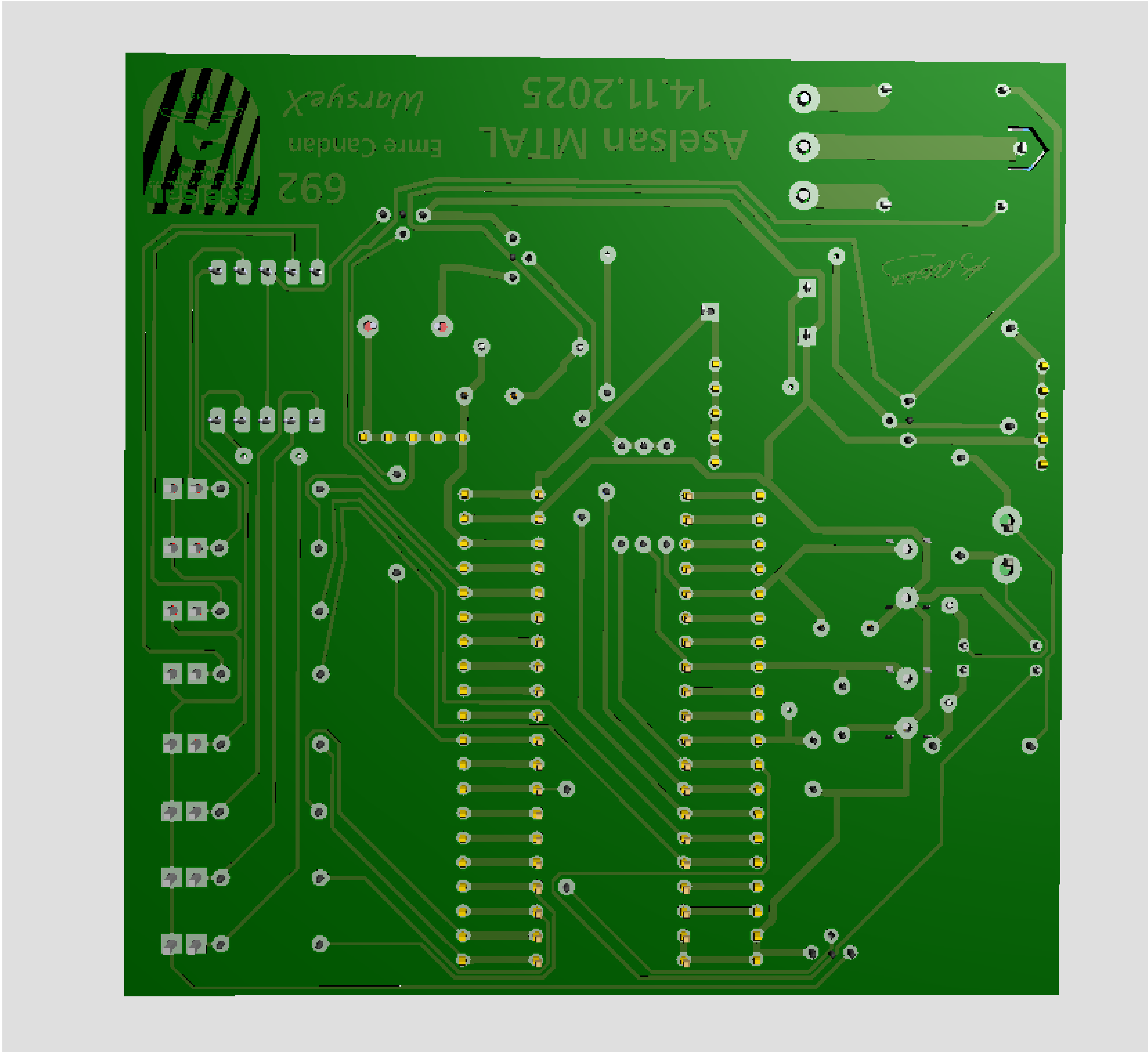

R8
R7
R6
R5
R4
R3
R2
R1
D8
D7
D6
D5
D4
D3
D2
D1
7SEG
R9
R10
J1
J2
J3
J4
Q2
C1
C3
C2
C4
BTN2
BTN1
R17
U1
D9
KL2
R18
R11
R12
R13
R14
R15
5V
3V3
Q4
GND
R16
BZ1
D10
RV1
Q1
Q3
J5
RL1
aselsan
692
Emre Candan
Warsyex
Aselsan MTAL
14.11.2025

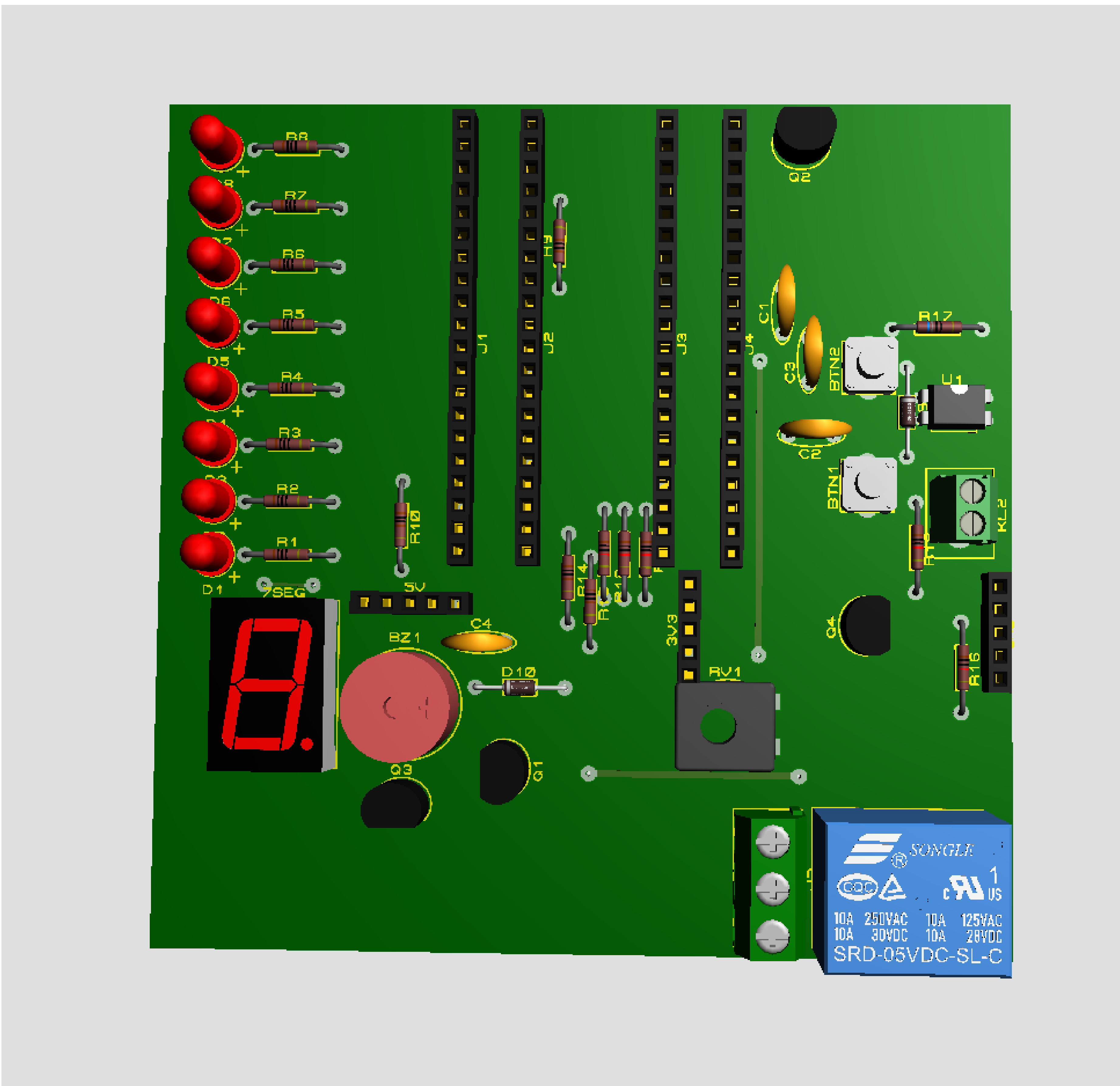

SRD-05VDC-SL-C
R1
R2
R3
R4
R5
R6
R7
R8
D1
7SEG
BZ1
Q3
C4
D10
5V
3V3
Q4
BTN1
C2
Q2
U1
R17


SRD-05VDC-SL-C
10A 250VAC 10A 125VAC
10A 30VDC 10A 28VDC
SONGLE
R1
R2
R3
R4
R5
R6
R7
R8
7SEG
BZ1
5V
Q3
Q1
C4
D10
J3
RV1
C2
Q2
U1
R17
KL2
GND


SONGLE
10A 250VAC 10A 125VAC
10A 30VDC 10A 28VDC
SRD-05VDC-SL-C
RL1






R8
R7
R6
R5
R4
R3
R2
R1
D1
D5
7SEG
5V
R10
J1
J2
J3
J4
R9
Q2
C1
C3
C2
C4
BTN2
BTN1
R17
U1
KL2
R14
3V3
RV1
BZ1
D10
Q1
Q3
Q4
R16
SONGLE
10A 250VAC 10A 125VAC
10A 30VDC 10A 28VDC
SRD-05VDC-SL-C

Bill Of Materials for mdpdevre

Design Title	mdpdevre
Author	Emre Candan
Document Number	
Revision	
Design Created	2 Kasım 2025 Pazar
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-R15	1k		
5	R11-R13,R16,R18	10k		
1	R17	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	1x5 PİN	NorComp 25630501RP2	
4	7SEG,BTN1-BTN2,STM32			
1	BZ1	BUZZER		
4	J1-J4	1x20 PİN	NorComp 26632001RP2	
1	J5	TBLOCK-M3		
1	KL2	0 no veya 1 no		
1	RL1	RLY-SPCO		
1	RV1	10K	Digikey 3214X-103EDKR-ND	
Sub-totals:				₺0,00

Totals:	₺0,00

14 Kasım 2025 Cuma 15:12:55