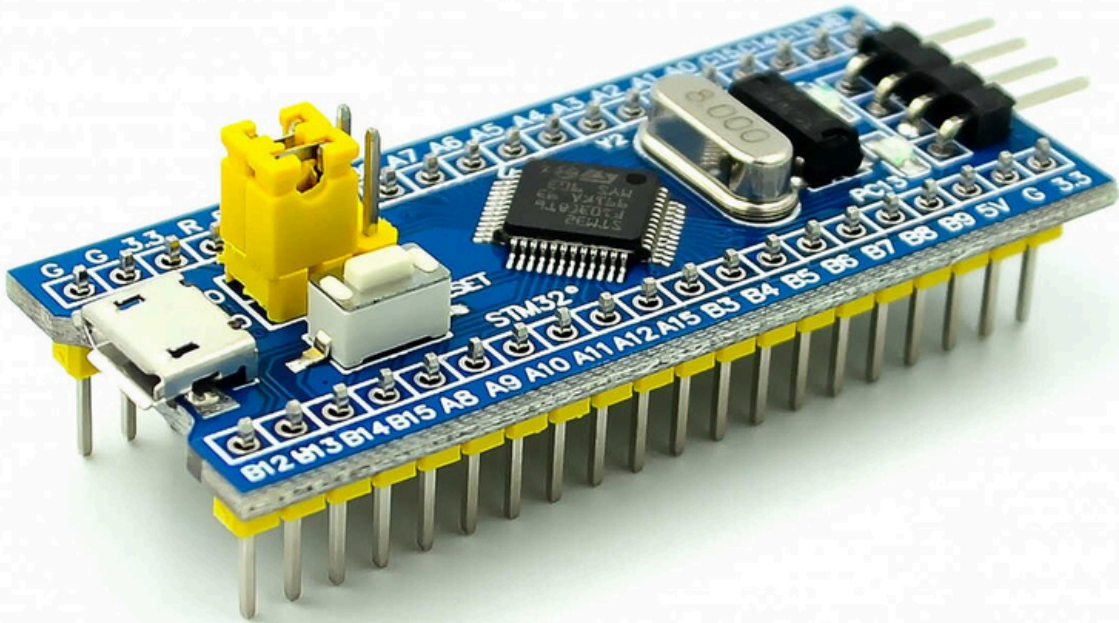


# STM32F103 GELİŞTİRME KARTI

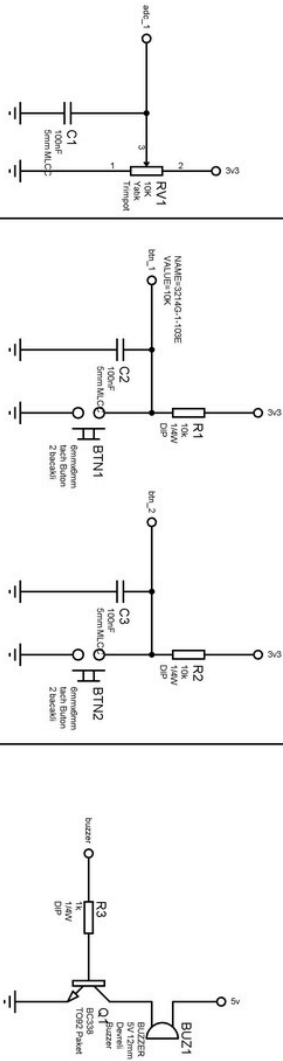


HAZIRLAYAN: KADİR BERK KÖKSAL

SINIFI: 11/B

NUMARASI: 661

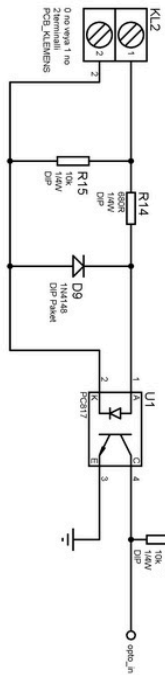
DERS ÖĞRETMENİ: MUSTAFA SEYHAN



## GİRİŞ - ANALOG

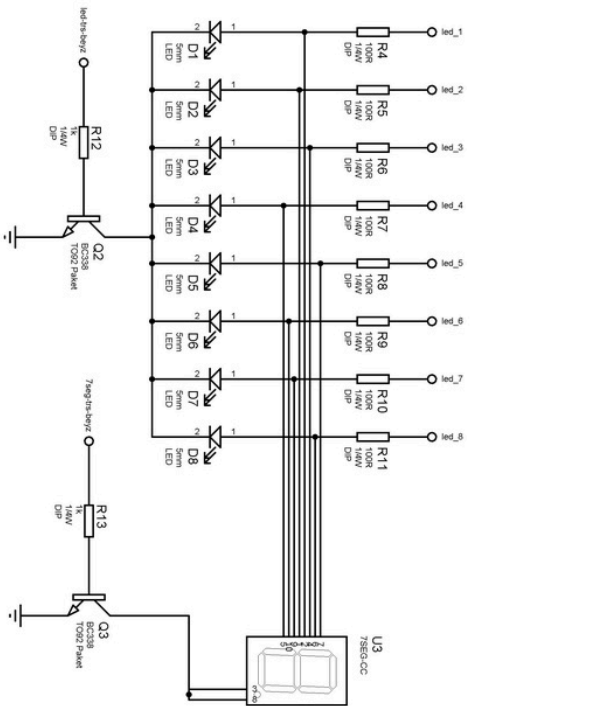
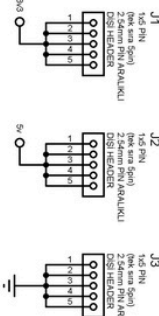
## GİRİŞ - BUTON (DİJİTAL)

## ÇIKIŞ - BUZZER



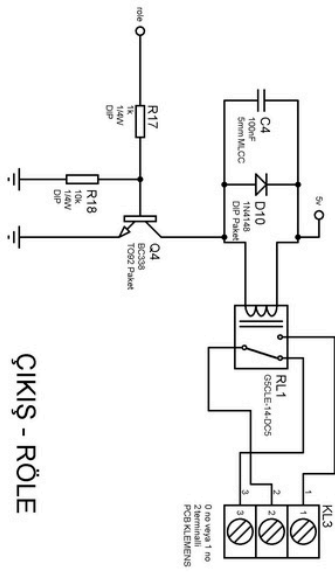
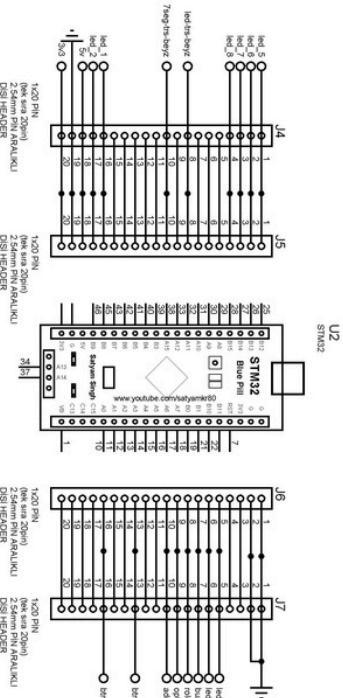
## GİRİŞ - OPTOCOUPLER (DİJİTAL)

## GÜÇ DAĞITIM BİRİMİ



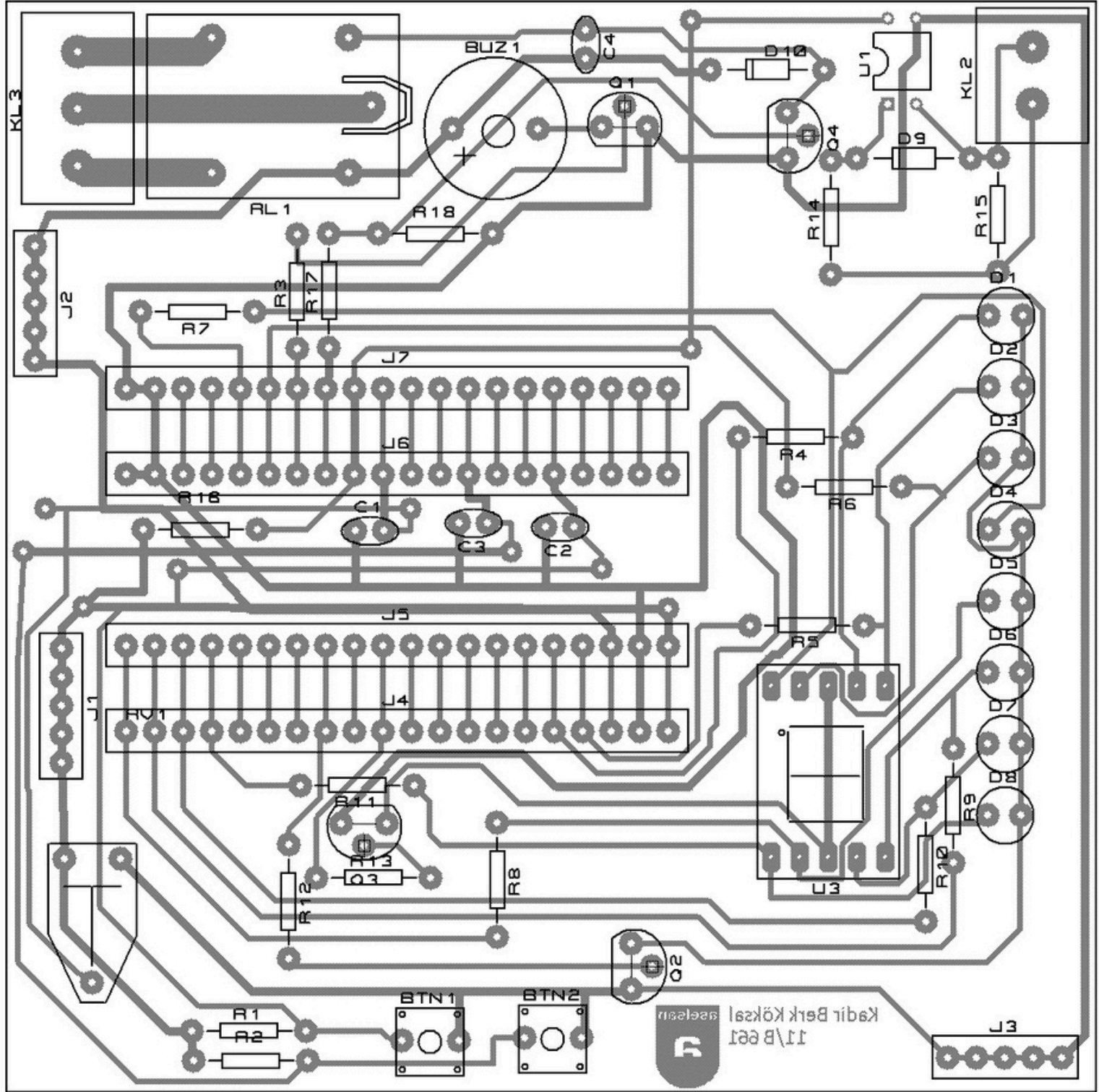
## ÇIKIŞ - LED - DISPLAY

## MCU BİRİMİ



## ÇIKIŞ - RÖLE

Devre Şeması



Yerleşim Planı (Overlay)

# Bill Of Materials for Gelistirme-karti



Design Title Gelistirme-karti  
Author Kadir Berk Köksal  
Document Number  
Revision  
Design Created 11 Kasım 2025 Salı  
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		₺0,00

Sub-totals:

## 18 Resistors

Quantity	References	Value	Stock Code	Unit Cost
5	R1-R2,R15-R16,R18	10k		
4	R3, R12-R13, R17	1k		
8	R4 - R11	100R		
1	R14	680R		

Sub-totals:

₺0,00

## 3 Integrated Circuits

Quantity	References	Value	Stock Code	Unit Cost
1	U1	P C817		
1	U2	S TM32		
1	U3	7SEG-CC		

Sub-totals:

₺0,00

## 4 Transistors

Quantity	References	Value	Stock Code	Unit Cost
4	Q1- Q4	B C338		

Sub-totals:

₺0,00

## 10 Diodes

Quantity	References	Value	Stock Code	Unit Cost
7	D1- D2, D4- D8			
1	D3	5mm		
2	D9-D10	1N4148		

Sub-totals:

₺0,00

## 14 Miscellaneous

Quantity	References	Value	Stock Code	Unit Cost
2	B TN1 - B TN2			
1	BUZ1	B UZZE R		
3	J1 - J3	5HEADER		
4	J4 - J7	20HEADER		
1	KL2	PCB_KLEMENS		
1	KL3	PCB KLEMENS		
1	RL1	G5CLE-14-DC5		
1	RV1	10K	Digikey 3214G-103EDKR-ND	

Sub-totals:

₺0,0

Totals:

0

₺0,0

14 Kasım 2025Cuma 16:32:06

Malzeme Listesi(Bill Of Material)

0



