



**aselsan**

MESLEKİ VE TEKNİK ANADOLU LİSESİ

“güven veren gelecek”

# 11/B -55

# Mehmet TOKER

---

*Nuvoton M031FB0AE Geliştirme kartı tanıtım  
dökümanıdır.*

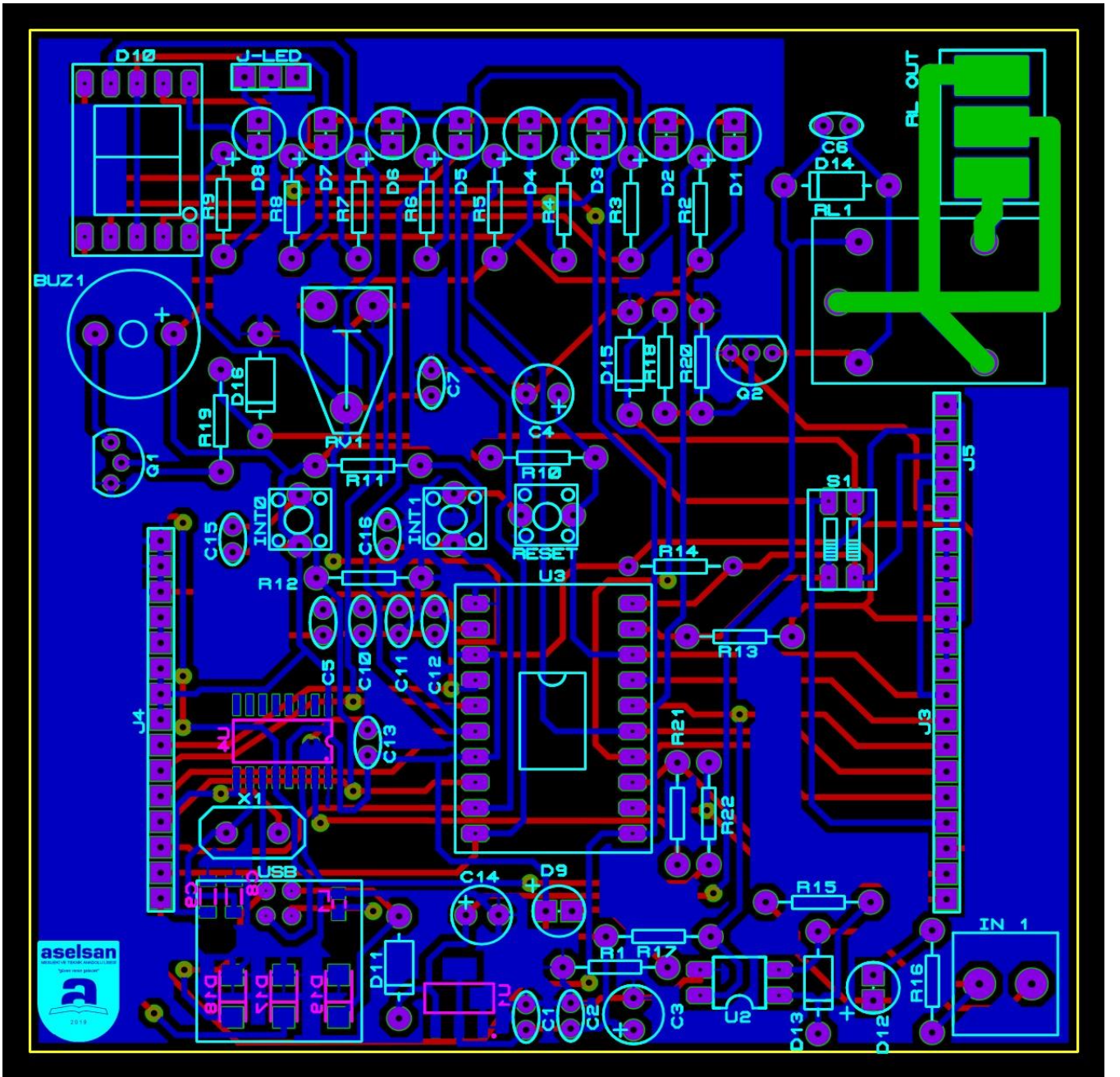
Bu belge geliştirdiğimiz kartın özelliklerini temel düzeyde gösteren bir dokümandır.

24.04.2023

---

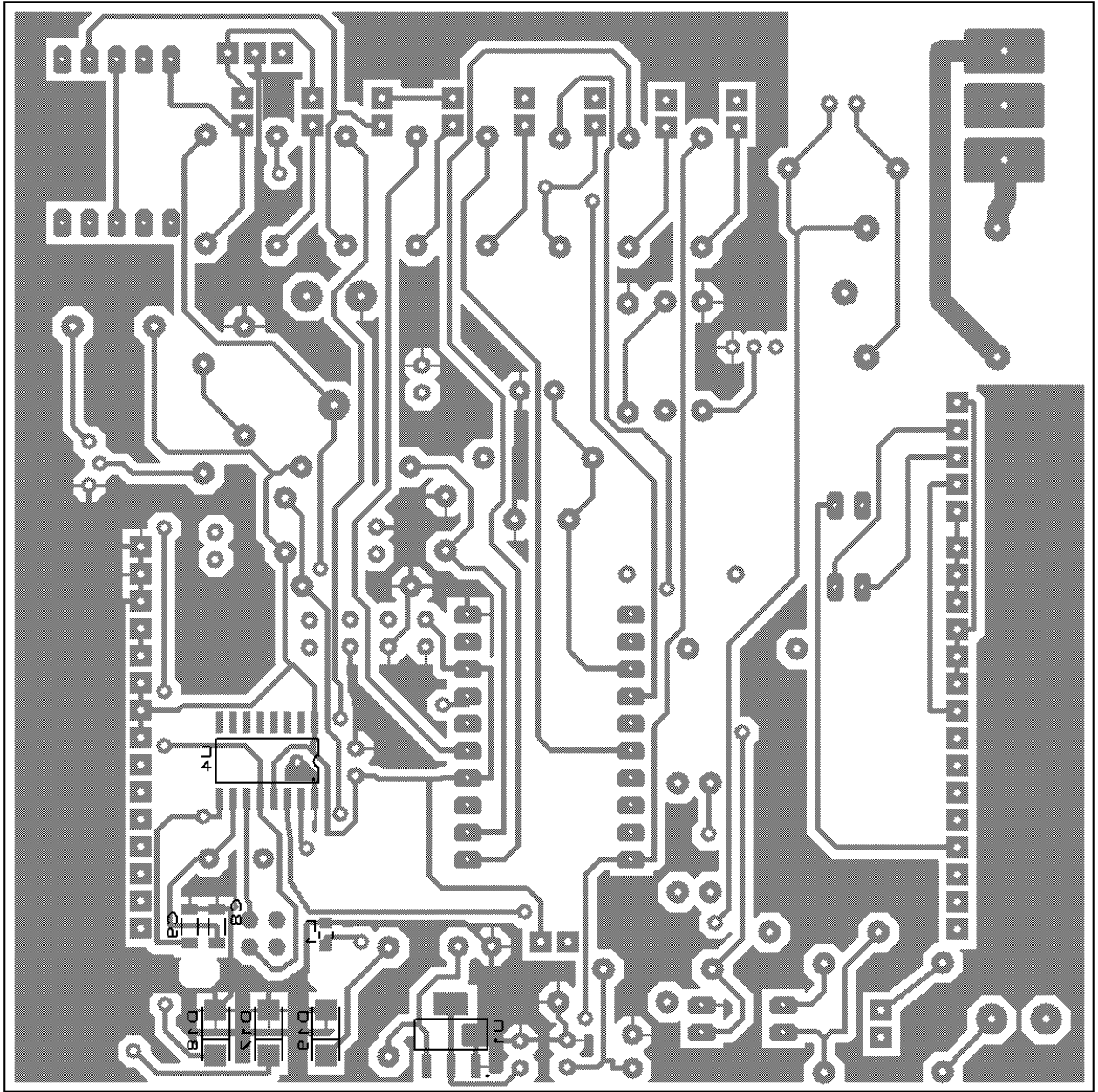






GENEL BASKI DEVRE GÖRÜNÜŞÜ





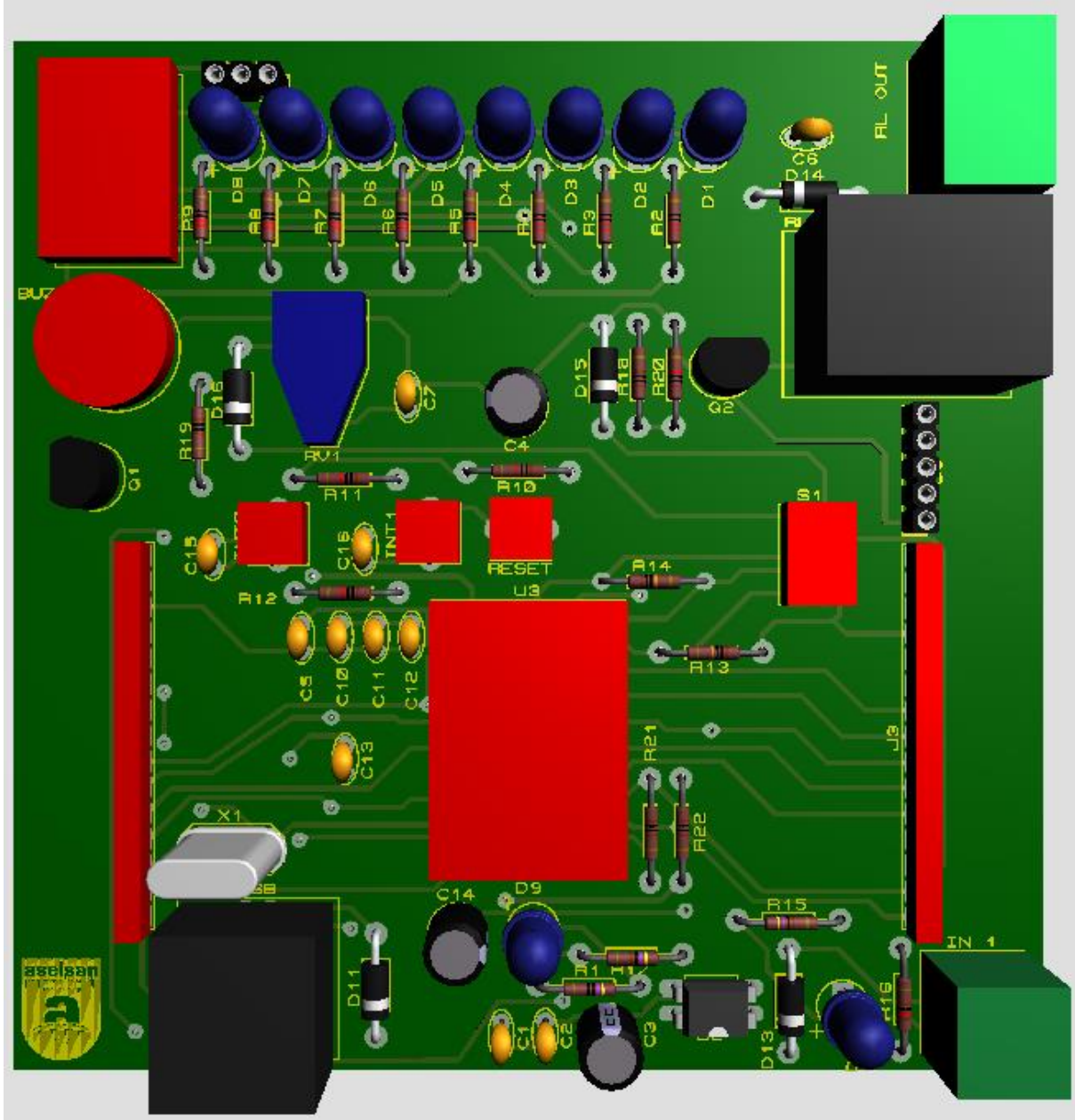
**ALT KATMAN YERLEŞİM PLANI**

Bill Of Materials for NUVOTON MİKRO DENETLEYİCİ KARTI

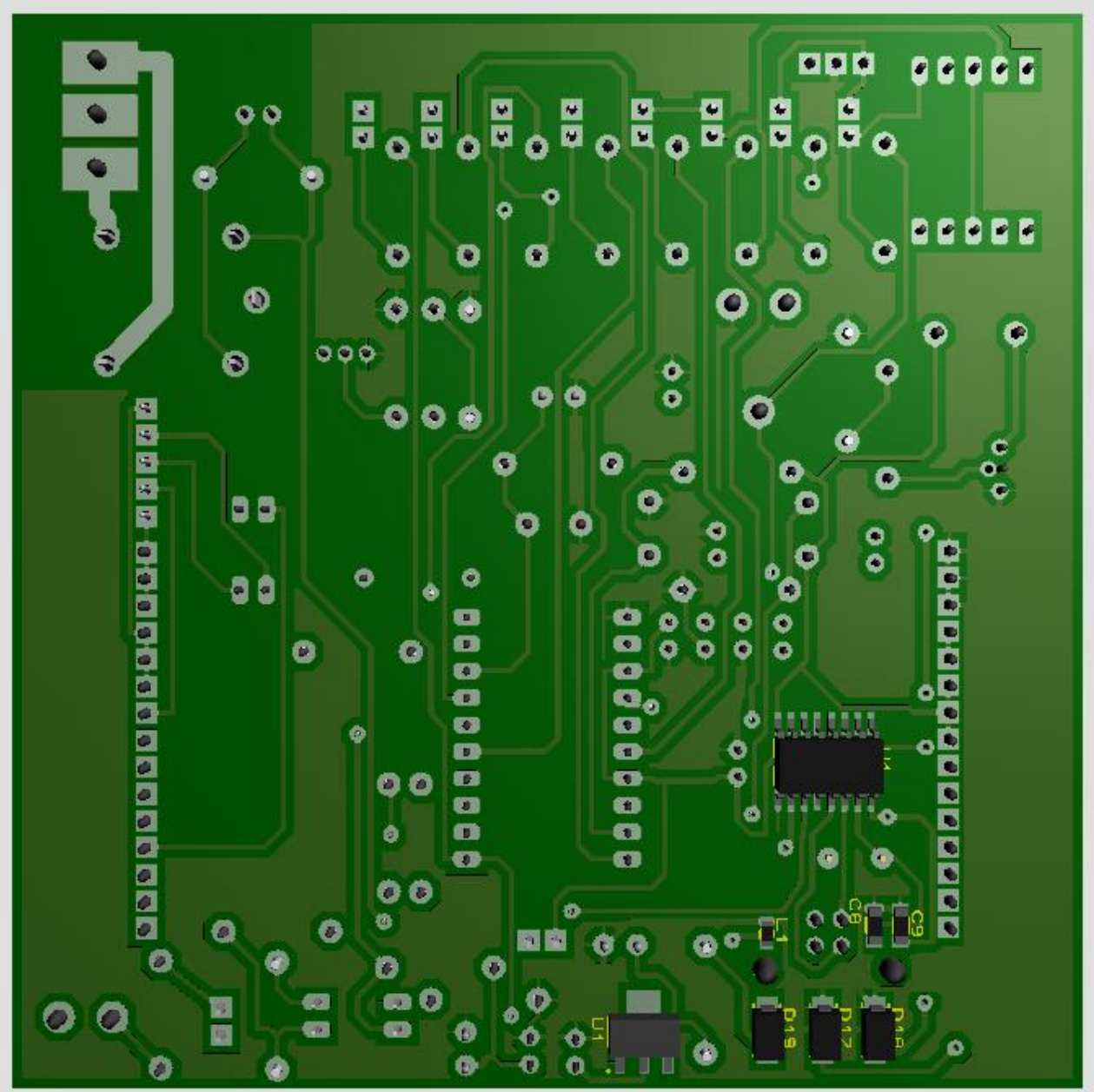
Design Title	NUVOTON MİKRO DENETLEYİCİ KARTI
Author	
Document Number	
Revision	
Design Created	19 Nisan 2023 Çarşamba
Design Last Modified	23 Nisan 2023 Pazar
Total Parts In Design	79

Category	Quantity	References	Value	Stock Code	Unit Cost
Capacitors	1	C1	220nF		
Capacitors	7	C2,C6-C7,C11,C13,C15-C16	100nF		
Capacitors	3	C3-C4,C14	10uF		
Capacitors	2	C5,C10	1nF		
Capacitors	1	C8	22pF		
Capacitors	1	C9	22nF		
Capacitors	1	C12	10nF		
Resistors	1	R1	470		
Resistors	8	R2-R9	220		
Resistors	4	R10-R12,R20	10k		
Resistors	2	R13-R14	100k		
Resistors	2	R15,R17	4k7		
Resistors	1	R16	1.2k		
Resistors	4	R18-R19,R21-R22	1k		
Integrated Circuits	1	U1	LM1117MP-3,3		
Integrated Circuits	1	U2	PC817		
Integrated Circuits	1	U3	M031FB0AE		
Integrated Circuits	1	U4			
Transistors	2	Q1-Q2	BC337		
Diodes	9	D1-D8,D10			
Diodes	2	D9,D12	LED		
Diodes	3	D11,D15-D16	1N5817		
Diodes	2	D13-D14	1N4001		
Diodes	3	D17-D19	SMAJ7.0A		
Miscellaneous	1	BUZ1	BUZZER		
Miscellaneous	1	IN 1	TBLOCK-I2		
Miscellaneous	5	INT0-INT1,L1,RESET,S1			
Miscellaneous	2	J3-J4	CONN-H15		
Miscellaneous	1	J5	CONN-SIL5		
Miscellaneous	1	J-LED	CONN-SIL3		
Miscellaneous	1	RL1	G5CLE-14-DC5		
Miscellaneous	1	RL OUT	TBLOCK-I3		
Miscellaneous	1	RV1	10k		
Miscellaneous	1	USB	CONN-H4		
Miscellaneous	1	X1	CRYSTAL		





ÜST KATMAN 3D GÖRÜNTÜSÜ



**ALT KATMAN 3D GÖRÜNTÜSÜ**