



aselsan

MESLEKİ VE TEKNİK ANADOLU LİSESİ

“güven veren gelecek”

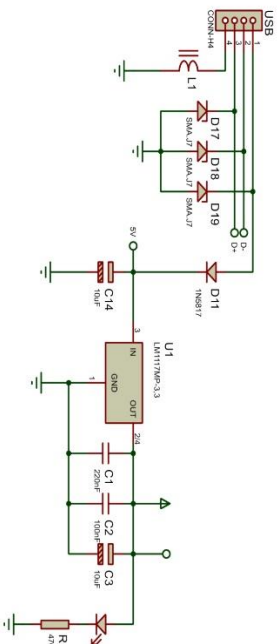
11/A-50

C. Utku ŞAHİN

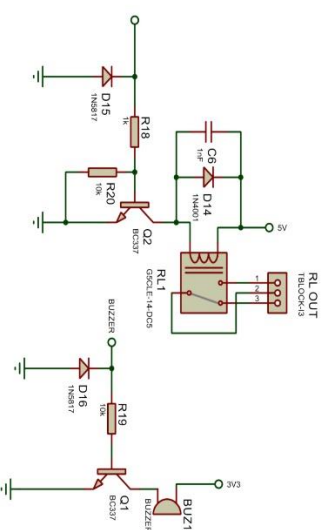
*Nuvoton M031FB0AE Geliştirme kartı tanıtım
dokümanıdır.*

Bu belge geliştirdiğimiz kartın özelliklerini temel düzeyde gösteren bir dokümandır.

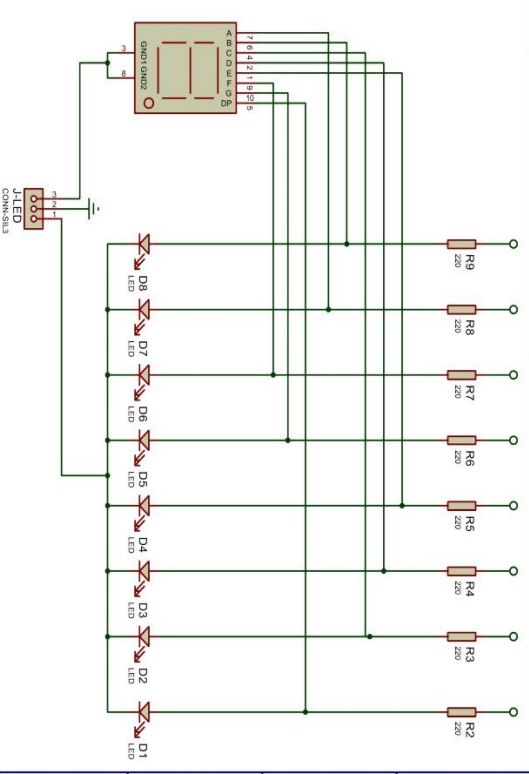
26.04.2023



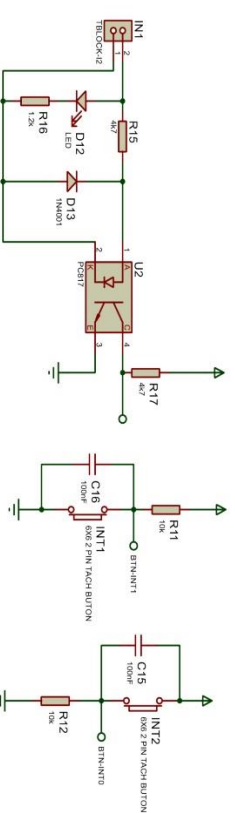
GÜÇ Girişi



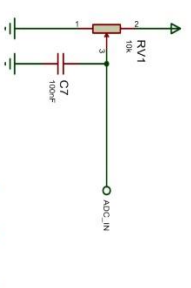
ÇIKIŞ BİRİMLERİ



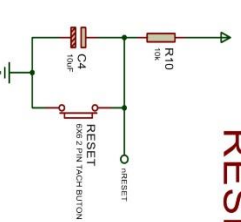
RESET DEVRESİ



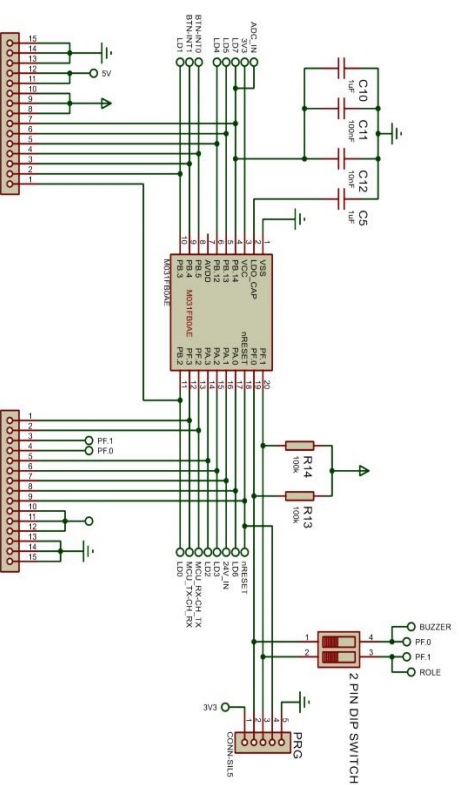
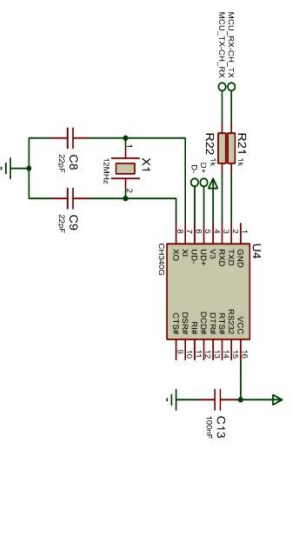
DİJİTAL GİRİŞ BİRİMLERİ



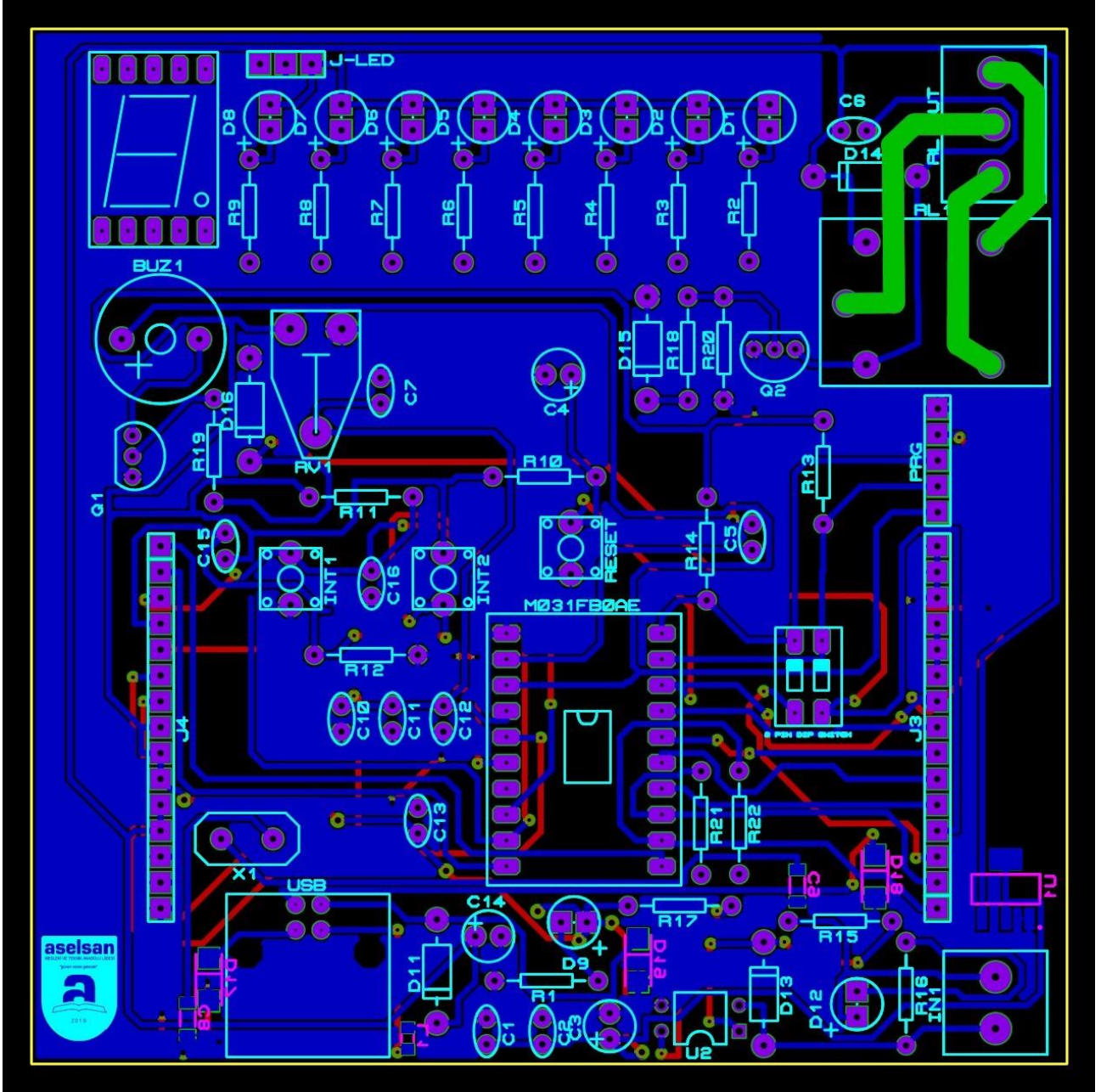
ANALOG TEST BİRİMİ



RESET DEVRESİ



MCU Birimi



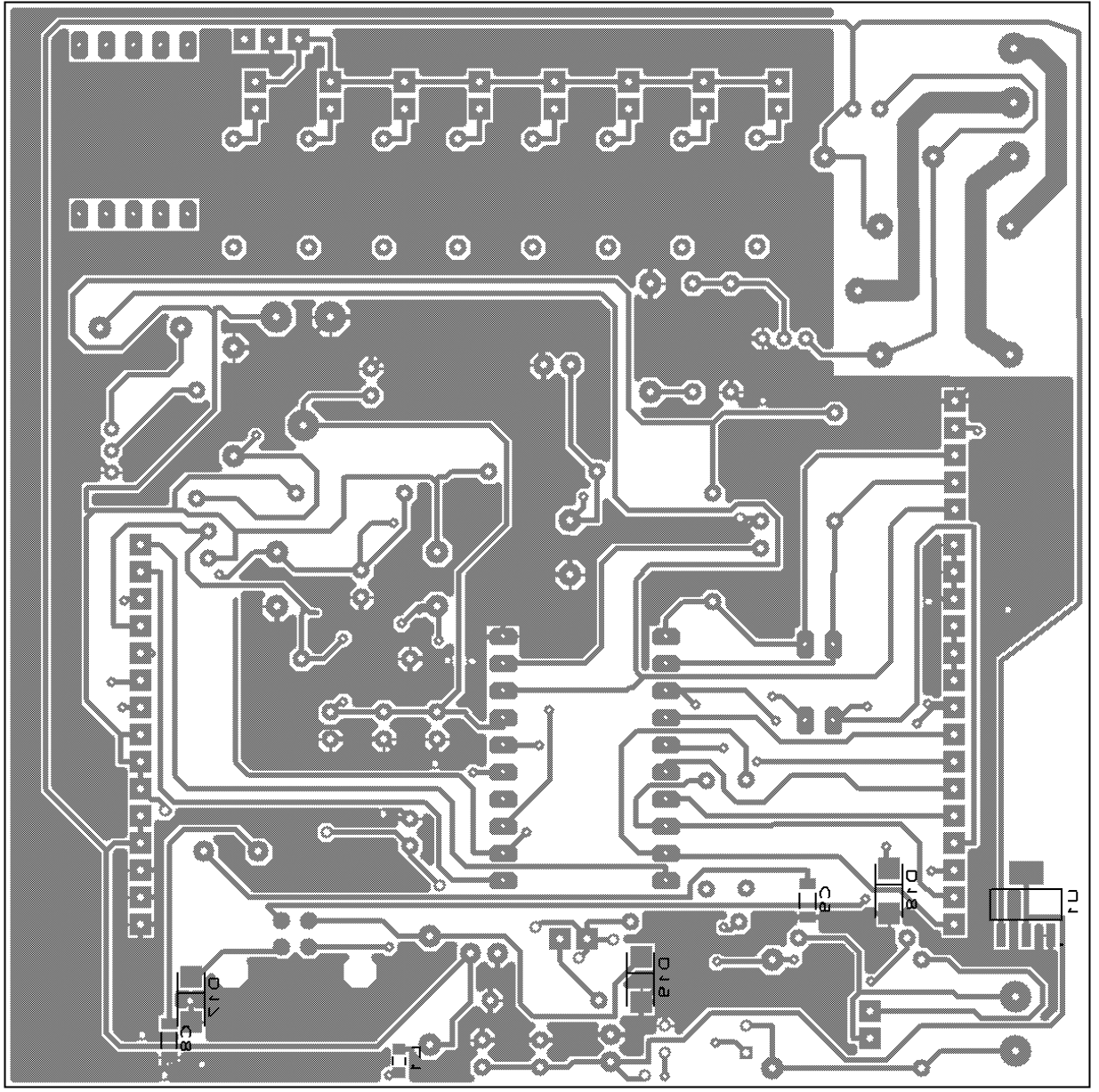
GENEL BASKI DEVRE GÖRÜNÜŞÜ



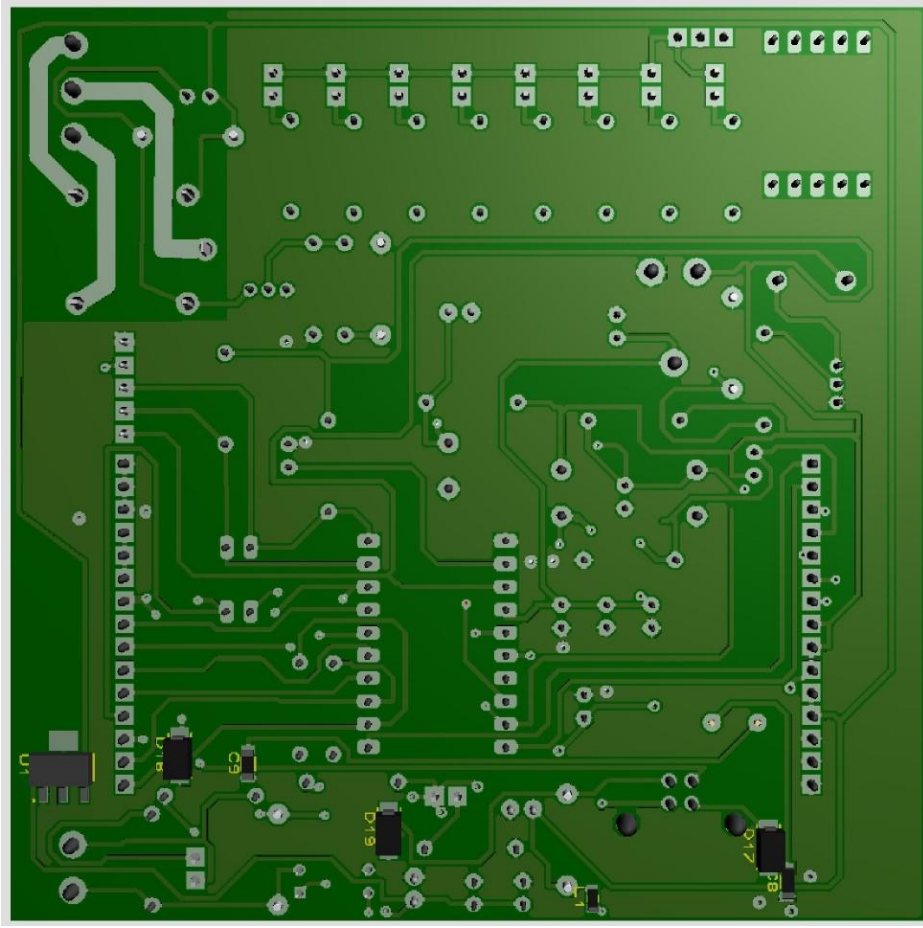
Bill Of Materials

Design Title	C.Utku ŞAHİN Mikrodenetleyici.
Author	
Document Number	
Revision	
Design Created	Thursday, March 2, 2023
Design Last Modified	Tuesday, April 25, 2023
Total Parts In Design	78

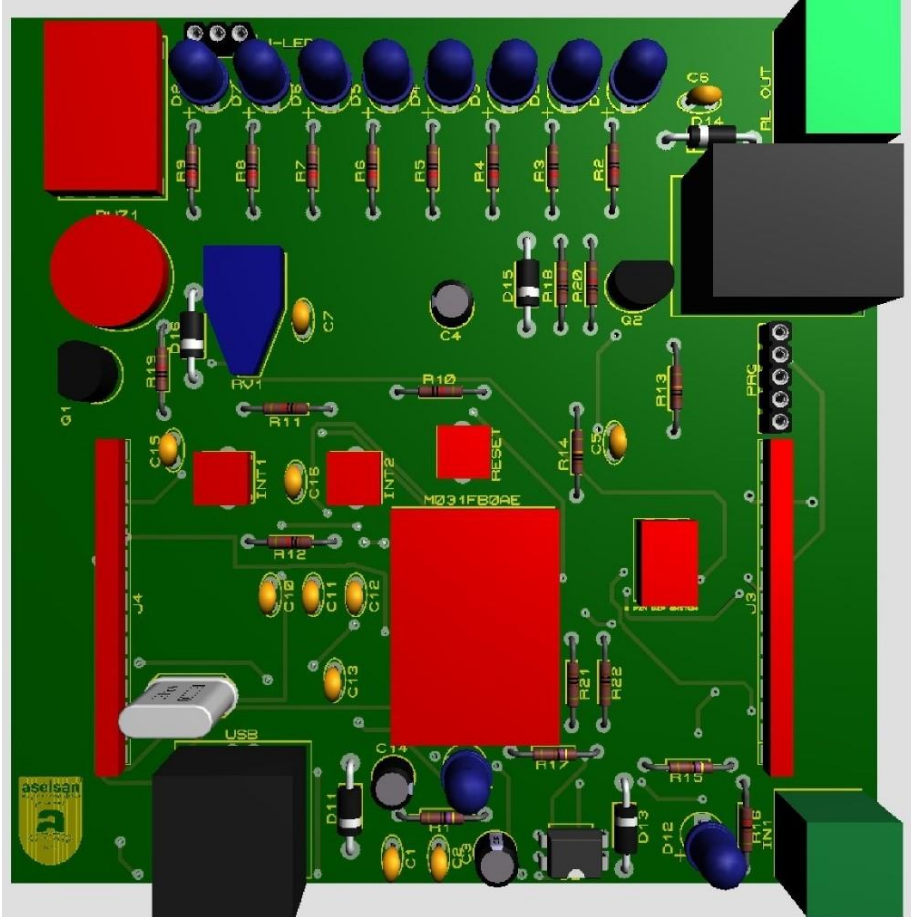
Category	Quantity	References	Value	Stock Code	Unit Cost
Modules	1	M031FB0AE			
Capacitors	1	C1	220nF		
Capacitors	6	C2,C7,C11,C13,C15-C16	100nF		
Capacitors	3	C3-C4,C14	10uF		
Capacitors	2	C5,C10	1uF		
Capacitors	1	C6	1nF		
Capacitors	2	C8-C9	22pF		
Capacitors	1	C12	10nF		
Resistors	1	R1	470		
Resistors	8	R2-R9	220		
Resistors	5	R10-R12,R19-R20	10k		
Resistors	2	R13-R14	100k		
Resistors	2	R15,R17	4k7		
Resistors	1	R16	1.2k		
Resistors	3	R18,R21-R22	1k		
Integrated Circuits	1	U1	LM1117MP-3,3		
Integrated Circuits	1	U2	PC817		
Integrated Circuits	1	U4	CH340G		
Transistors	2	Q1-Q2	BC337		
Diodes	10	D1-D9,D12	LED		
Diodes	3	D11,D15-D16	1N5817		
Diodes	2	D13-D14	1N4001		
Diodes	3	D17-D19	SMA.J7	Digikey MA8024CT-ND	
Miscellaneous	2	2 PIN DIP SWITCH,L1			
Miscellaneous	1	BUZ1	BUZZER		
Miscellaneous	1	IN1	TBLOCK-I2		
Miscellaneous	3	INT1-INT2,RESET	6X6 2 PIN TACH BUTON		
Miscellaneous	2	J3-J4	CONN-H15		
Miscellaneous	1	J-LED	CONN-SIL3		
Miscellaneous	1	PRG	CONN-SIL5		
Miscellaneous	1	RL1	G5CLE-14-DC5		
Miscellaneous	1	RL OUT	TBLOCK-I3		
Miscellaneous	1	RV1	10k		
Miscellaneous	1	USB	CONN-H4		
Miscellaneous	1	X1	12MHz		



ALT KATMAN YERLEŞİM PLANI



ALT KATMAN 3D GÖRÜNTÜ



ÜST KATMAN 3D GÖRÜNTÜ