



aselsan

MESLEKİ VE TEKNİK ANADOLU LİSESİ

“güven veren gelecek”

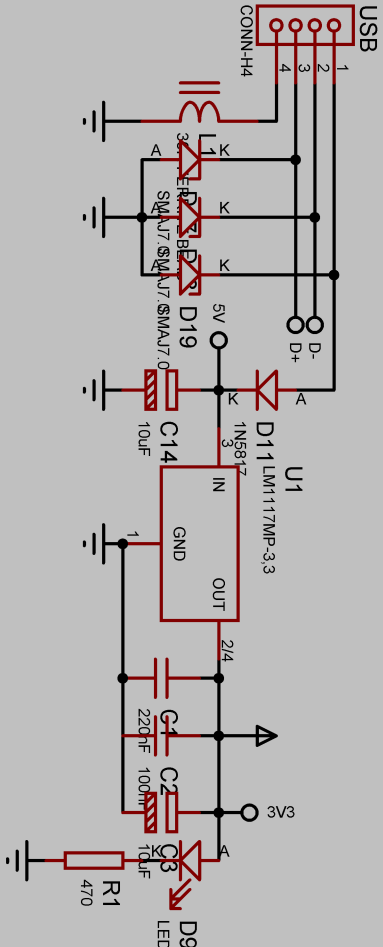
11/A - 25

Yiğit Efe KURAN

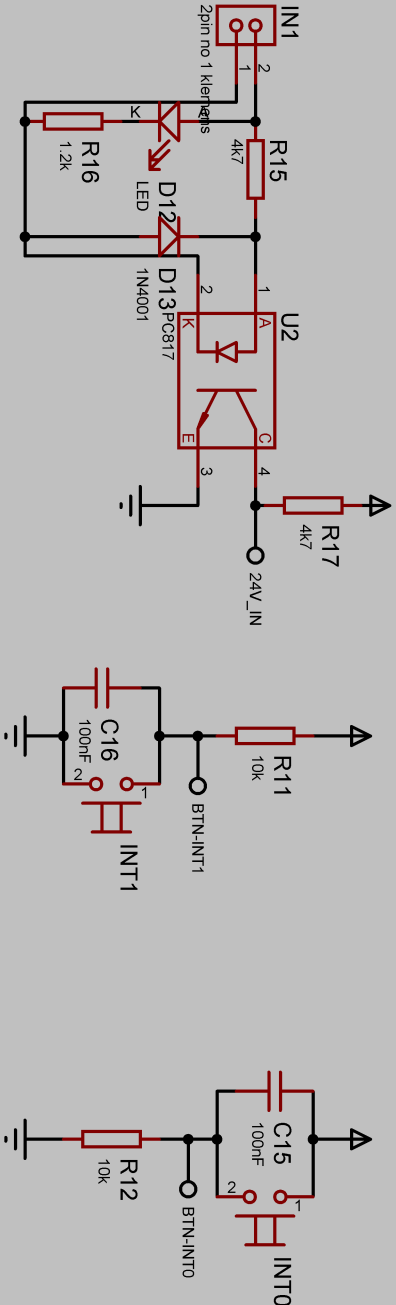
**Nuvoton M031FB0AE Geliştirme kartı
tanıtım dökümanıdır.**

Bu belge geliştirdiğimiz kartın özelliklerini temel düzeyde
gösteren bir dokümandır.

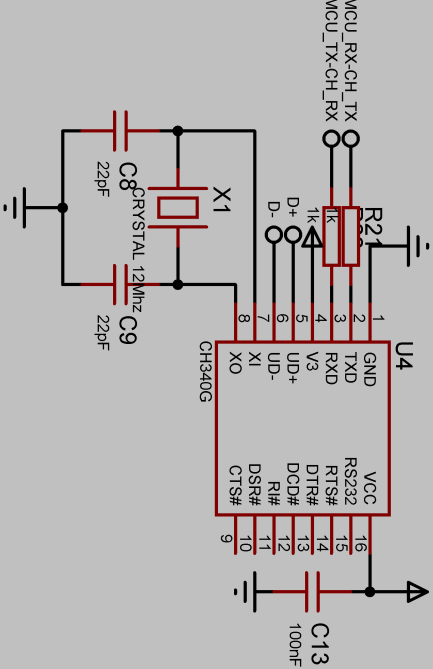
20.04.2023



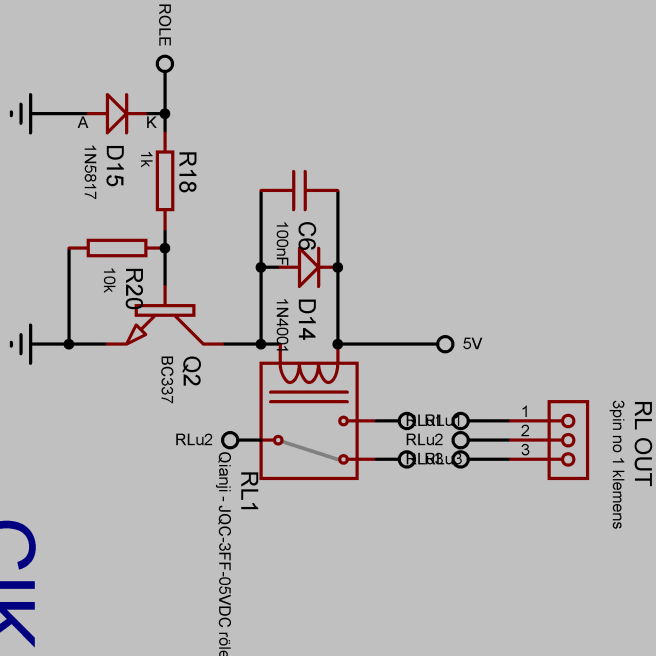
GÜÇ GİRİŞİ



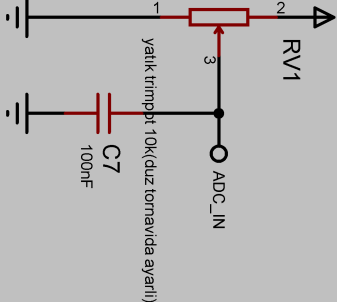
DİJİTAL GİRİŞ BİRİMLERİ



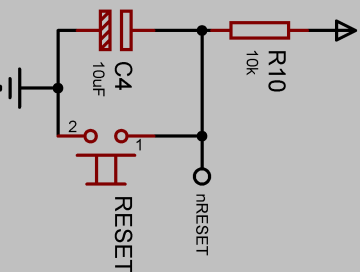
USB->UART DÖNÜŞTÜRÜCÜ



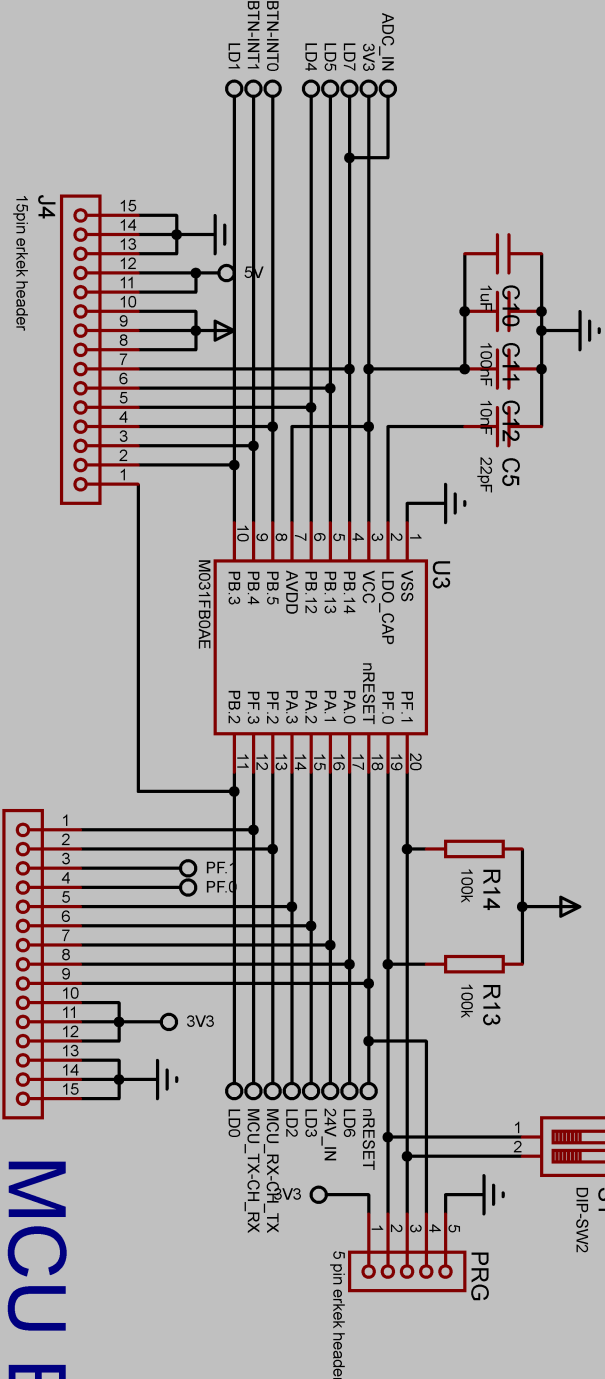
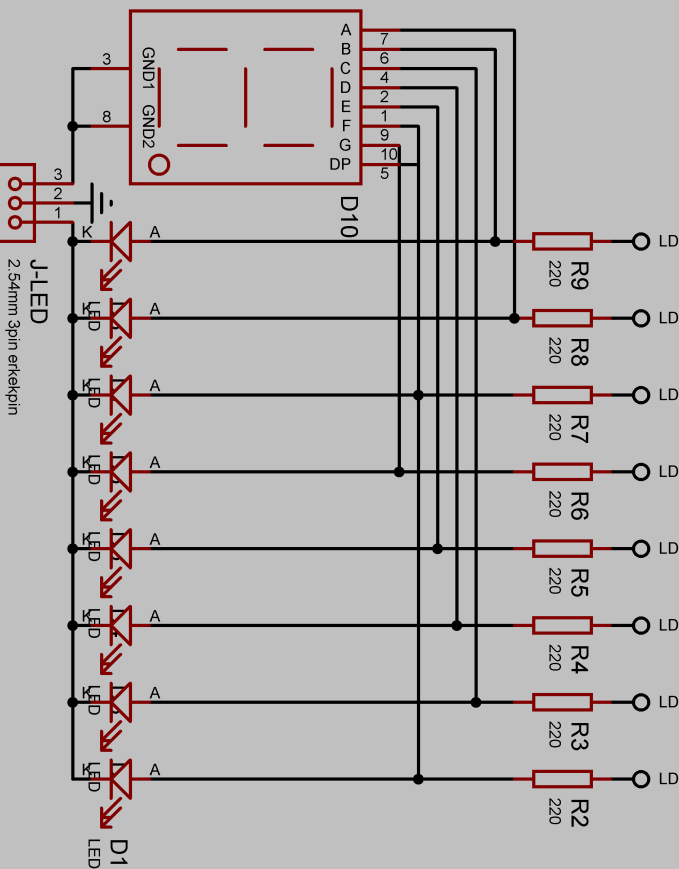
ÇIKIŞ BİRİMLERİ



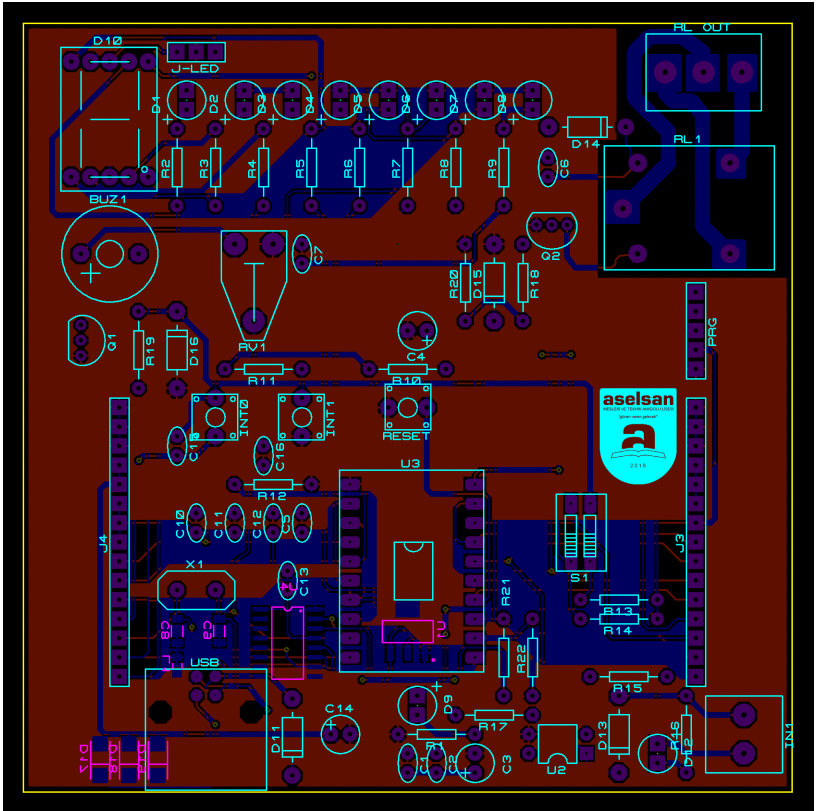
ANALOG TEST BİRİMİ



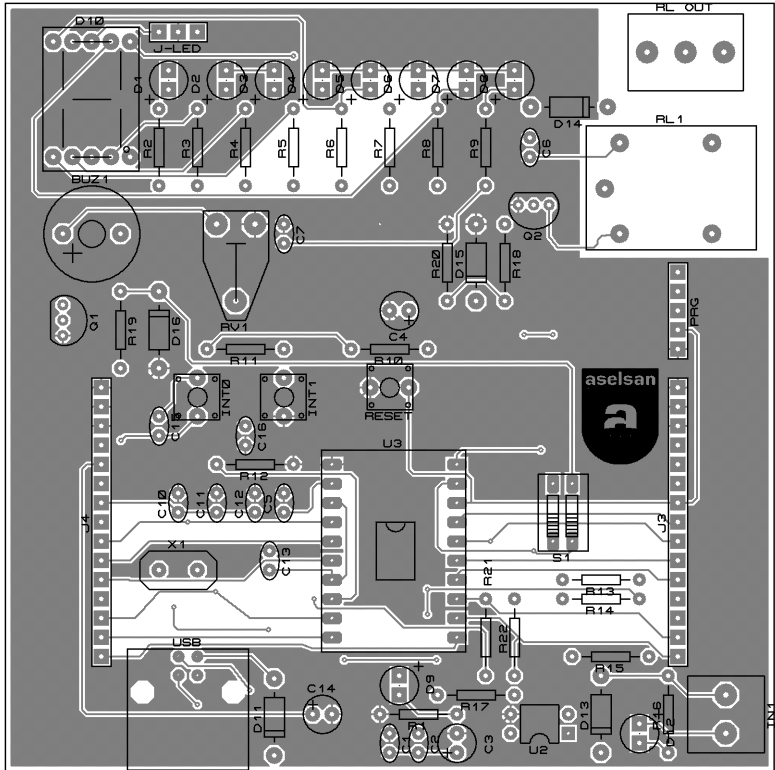
RESET DEVRESİ



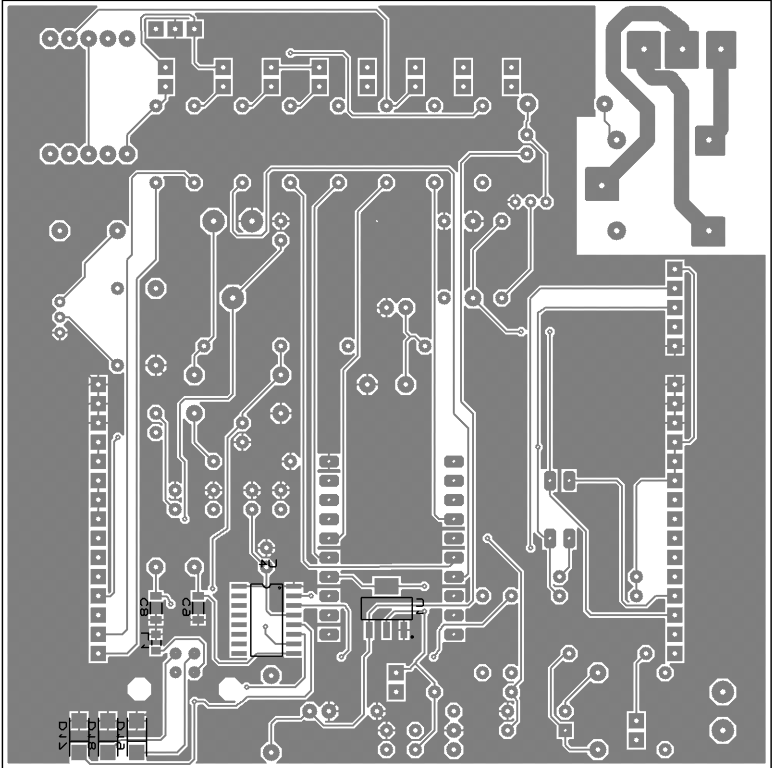
MCU BİRİMİ



Genel Baskı Devre Görünüşü



Üst Katman Yerleşim Planı

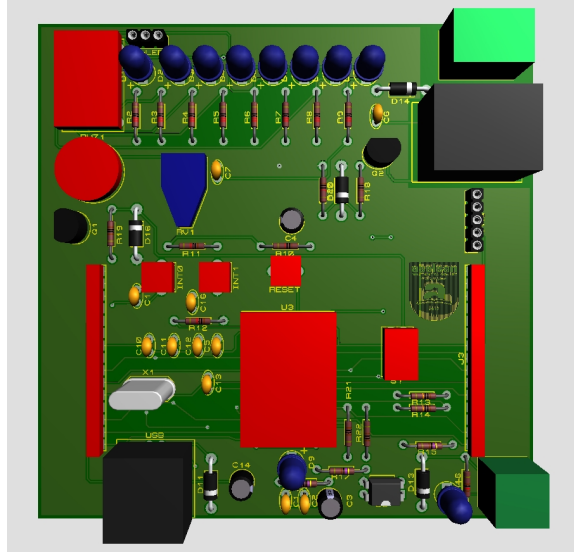


Alt Katman Yerleşim Planı

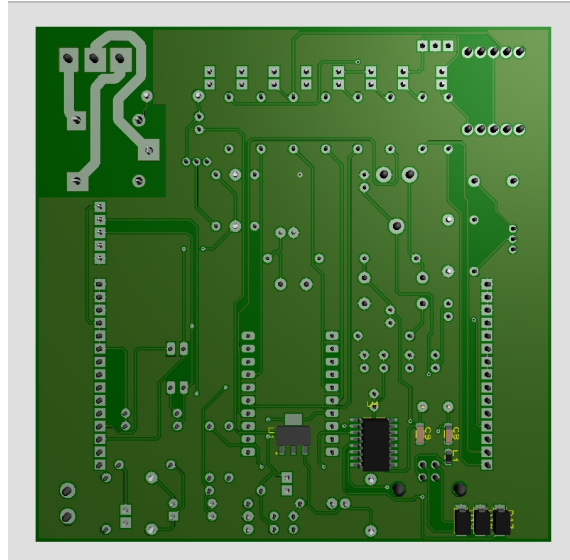
Bill Of Materials for sinav

Design Title	sinav
Author	
Document Number	
Revision	
Design Created	29 Mart 2023 Çarşamba
Design Last Modified	25 Nisan 2023 Salı
Total Parts In Design	79

Category	Quantity	References	Value
Capacitors	1	C1	220nF
Capacitors	7	C2,C6-C7,C11,C13,C15-C16	100nF
Capacitors	3	C3-C4,C14	10uF
Capacitors	3	C5,C8-C9	22pF
Capacitors	1	C10	1uF
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	CH340G
Transistors	2	Q1-Q2	BC337
Diodes	10	D1-D9,D12	LED
Diodes	1	D10	
Diodes	3	D11,D15-D16	1N5817
Diodes	2	D13-D14	1N4001
Diodes	3	D17-D19	SMAJ7.0
Miscellaneous	1	BUZ1	BUZZER
Miscellaneous	1	IN1	2pin no 1 klemens
Miscellaneous	3	INT0-INT1,RESET	6x6 button
Miscellaneous	2	J3-J4	15pin erkek header
Miscellaneous	1	J-LED	2.54mm 3pin erkekpin
Miscellaneous	1	L1	30R FERRITE BEAD
Miscellaneous	1	PRG	5 pin erkek header
Miscellaneous	1	RL1	Qianji - JQC-3FF-05VDC röle
Miscellaneous	1	RL OUT	3pin no 1 klemens
Miscellaneous	1	RV1	yatık trimpot 10k(duz tornavida ayarli)
Miscellaneous	1	S1	DIP-SW2
Miscellaneous	1	USB	CONN-H4
Miscellaneous	1	X1	CRYSTAL 12Mhz



Üst Katman 3D Görüntü



Alt Katman 3D Görüntü