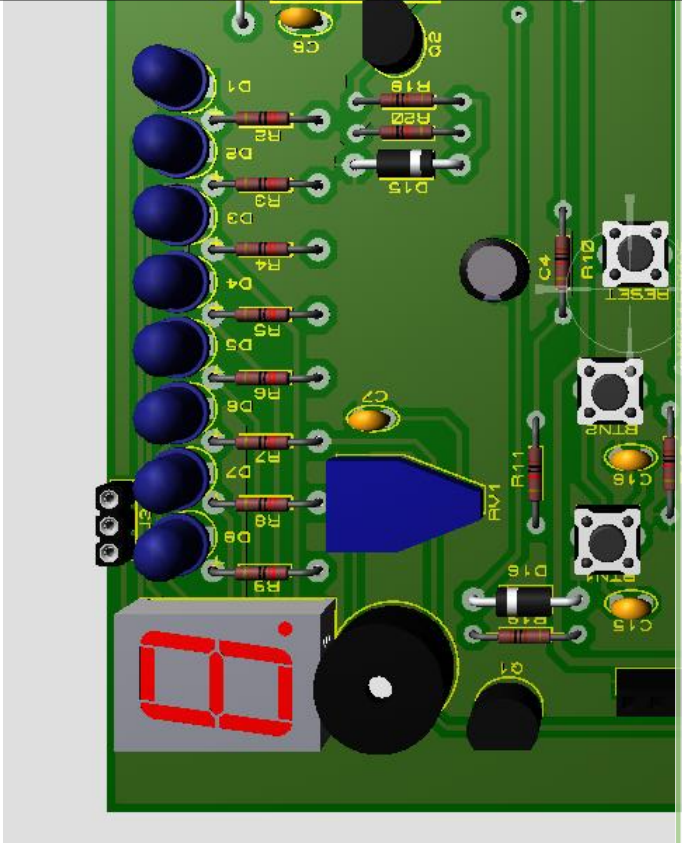


2023

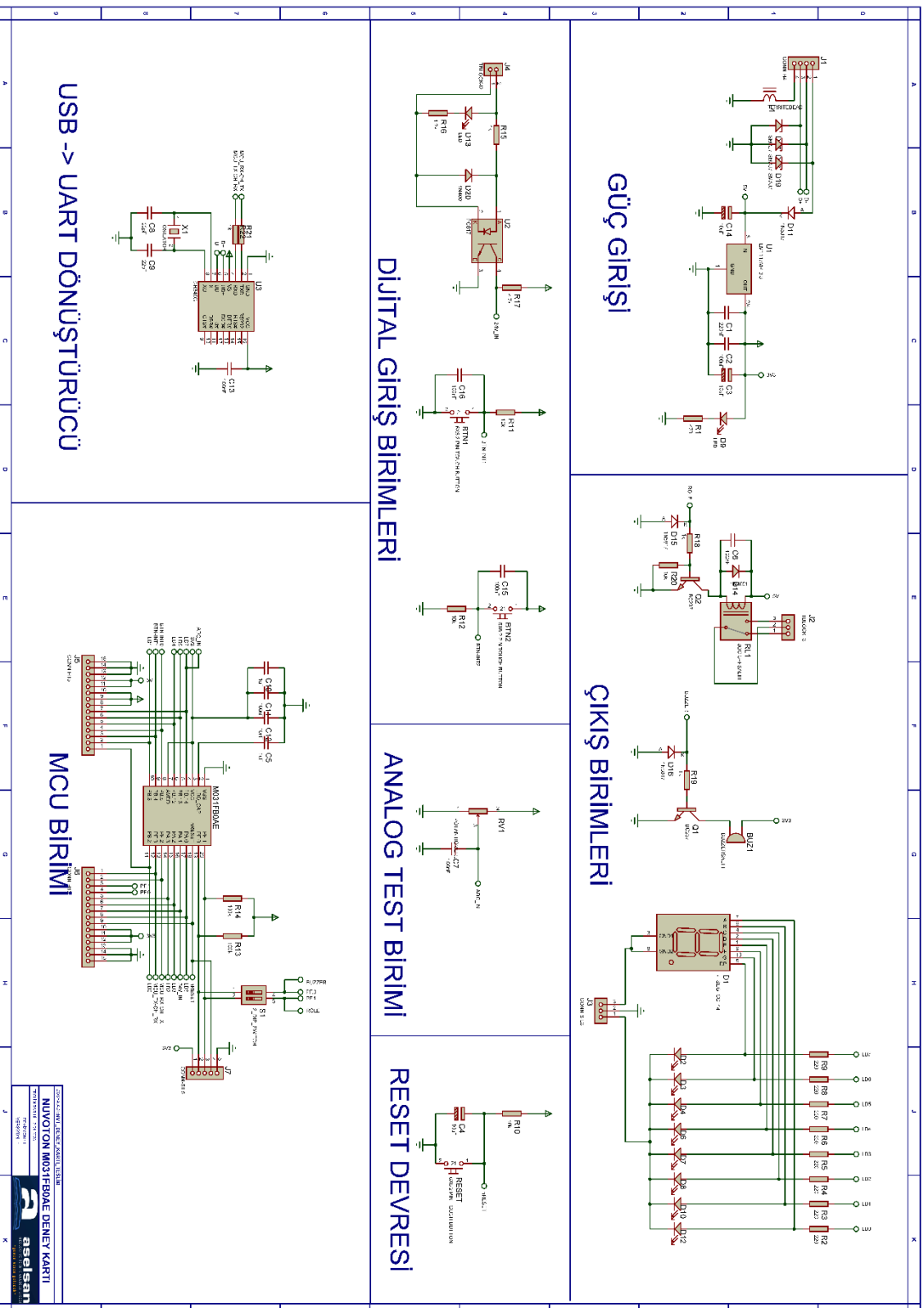
# NUVOTON M031FB0AE GELİŞTİRME KARTI TANITIM DOKÜMANI

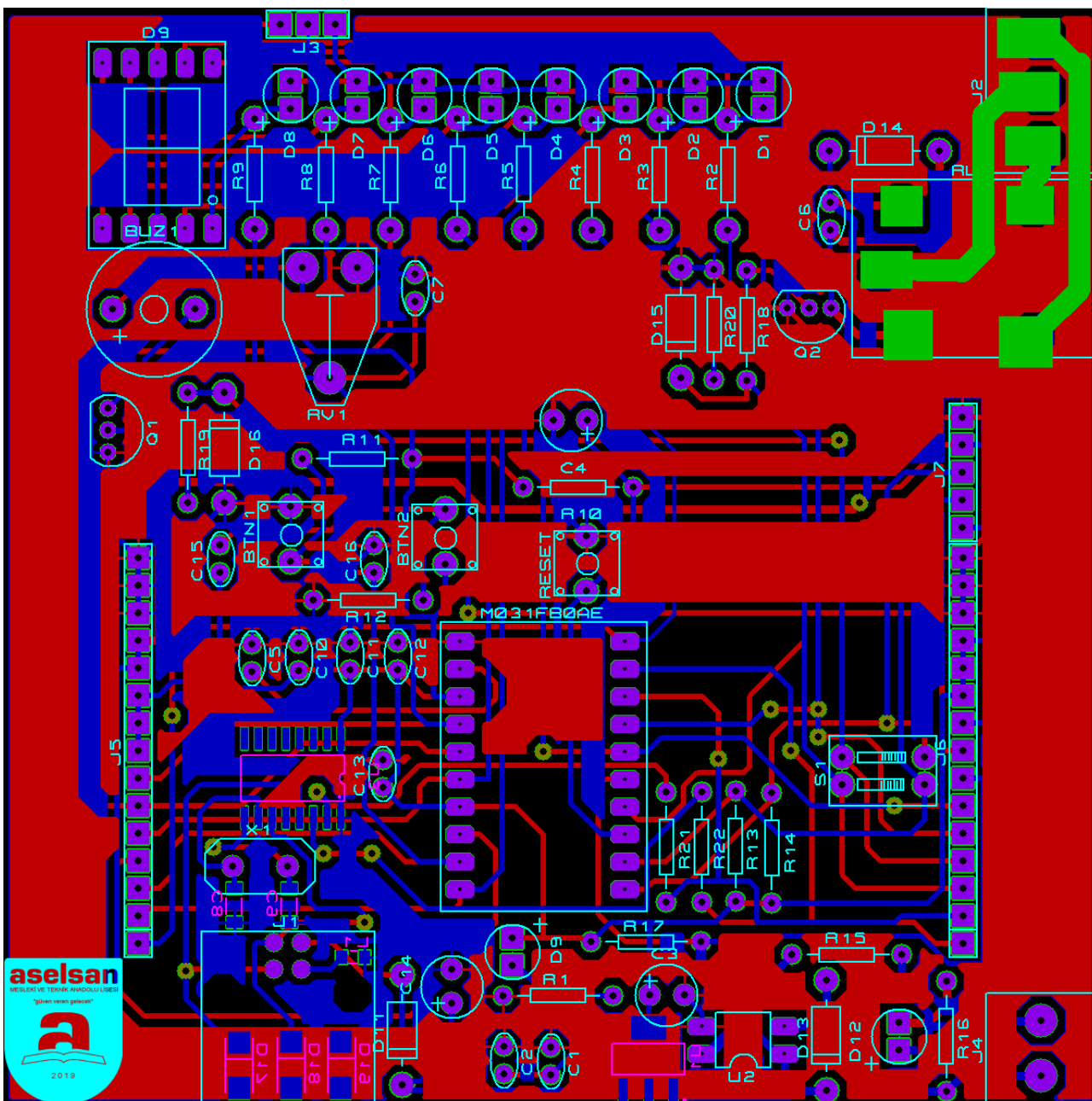


Salih Genç 11/B - 38

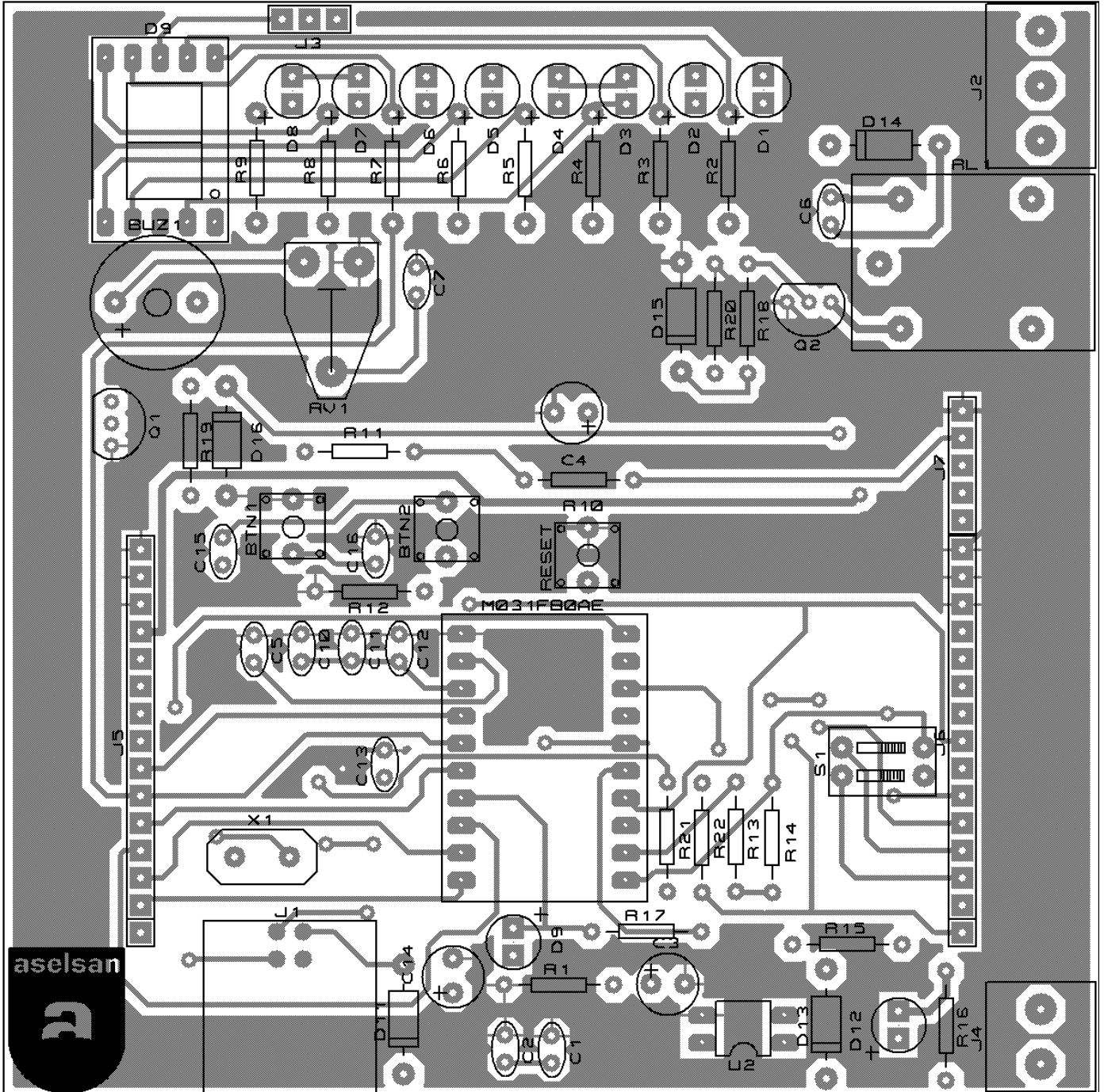
ASELSAN MESLEKİ VE TEKNİK ANADOLU  
LİSESİ

07.04.2023



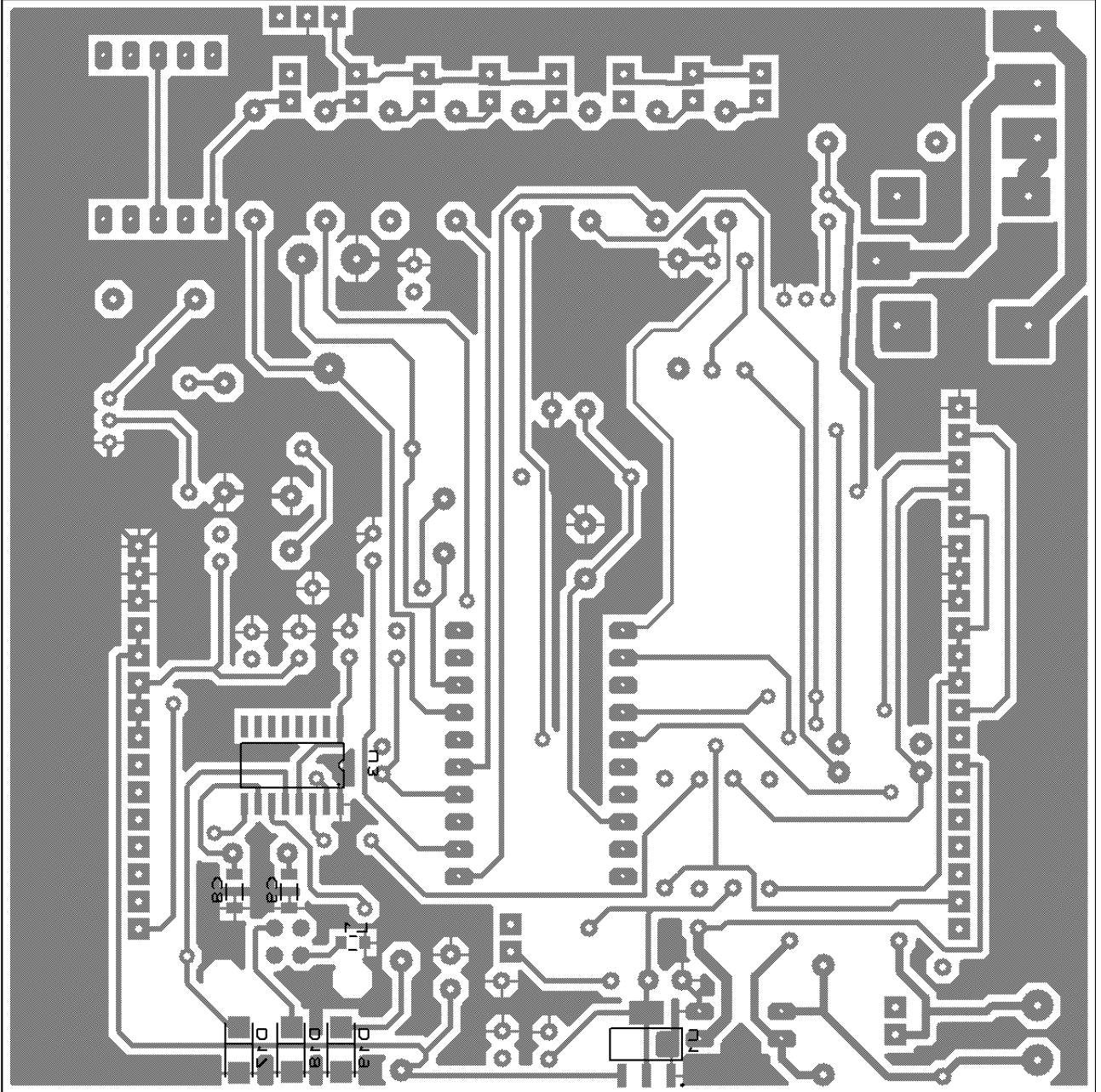


## GENEL BASKI DEVRE GÖRÜNÜŞÜ



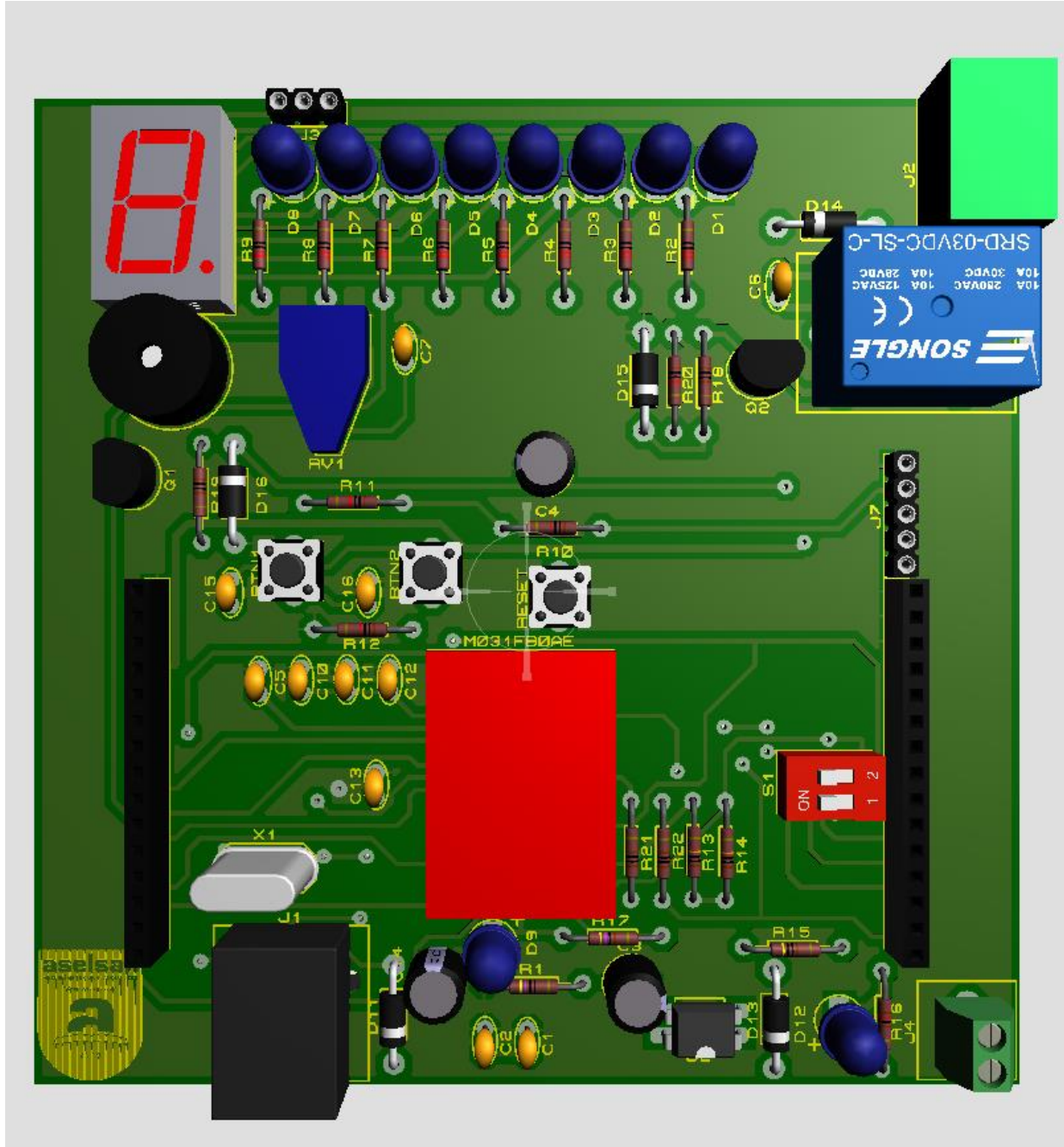
**ÜST KATMAN YERLEŞİM PLANI**





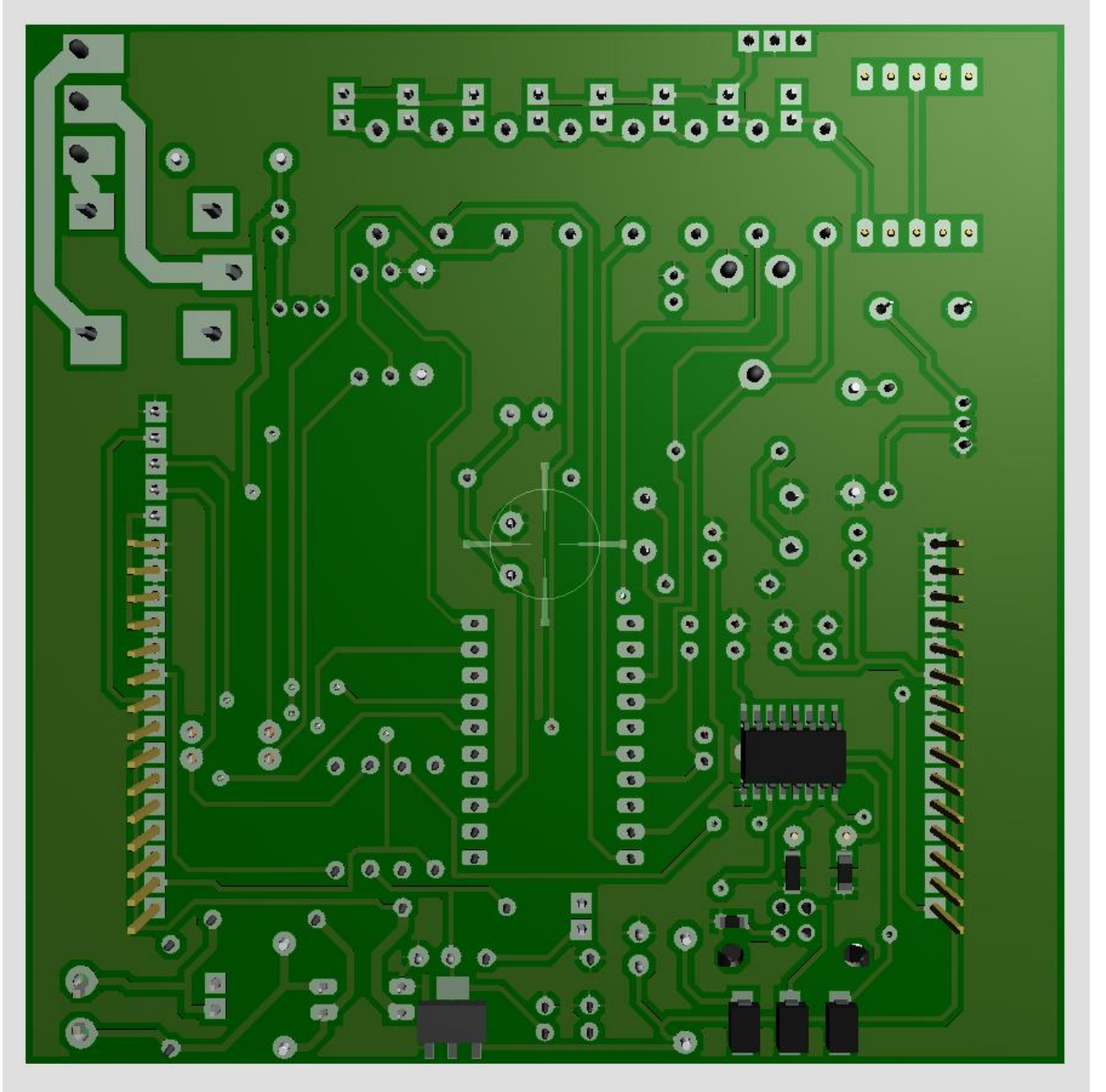
**ALT KATMAN YERLEŞİM PLANI**

Bill Of Materials for Nuvoton_M031FB0AE_PROTEUS				
Design Title	Nuvoton_M031FB0AE_PROTEUS			
Author				
Document Number				
Revision				
Design Created	20 Nisan 2023 Perşembe			
Design Last Modified	21 Nisan 2023 Cuma			
Total Parts In Design	79			
Category	Quantity	References	Value	PCB Package
Modules	1	M031FB0AE		M031FB0AE5
Capacitors	1	C1	220nF	CAP10
Capacitors	7	C2,C6-C7,C11,C13,C15-C16	100nF	CAP10
Capacitors	3	C3-C4,C14	10uF	ELEC-RAD13
Capacitors	2	C5,C10	1uF	CAP10
Capacitors	2	C8-C9	22pF	1206
Capacitors	1	C12	10nF	CAP10
Resistors	1	R1	470	RES40
Resistors	8	R2-R9	220	RES40
Resistors	4	R10-R12,R20	10k	RES40
Resistors	2	R13-R14	100k	RES40
Resistors	1	R15	4k	RES40
Resistors	1	R16	1.2k	RES40
Resistors	1	R17	4.7k	RES40
Resistors	4	R18-R19,R21-R22	1k	RES40
Integrated Circuits	1	U1	LM1117MP-3,3	SOT230P700X180-4
Integrated Circuits	1	U2	PC817	DIL04
Integrated Circuits	1	U3	CH340G	SOP16
Transistors	2	Q1-Q2	BC237	TO92
Diodes	8	D1-D8		LED
Diodes	2	D9,D12	LED	LED
Diodes	3	D11,D15-D16	1N5817	DO41
Diodes	2	D13-D14	1N4001	DO41
Diodes	3	D17-D19	SMAJ7	DO214
Diodes	1	D20	7_SEG_CC_14	7-SEGMENTSALIHENSON
Miscellaneous	3	BTN1-BTN2,RESET	6X6 2 PIN TOUCH BUTTON	6X6BUTTON
Miscellaneous	1	BUZ1	BUZZERSALIH	BUZZERSALIH
Miscellaneous	1	J1	CONN-H4	USB-B3D
Miscellaneous	1	J2	TBLOCK-I3	TBLOCK-I3
Miscellaneous	1	J3	CONN-SIL3	CONN-SIL3
Miscellaneous	1	J4	TBLOCK-I2	TBLOCK-I23D
Miscellaneous	2	J5-J6	CONN-H15	CONN-H15
Miscellaneous	1	J7	CONN-SIL5	CONN-SIL5
Miscellaneous	1	L1	FERRITEBEAD	0805
Miscellaneous	1	RL1	JQC-3FFSALIH	RLY-OMRON-C4
Miscellaneous	1	RV1	POTANTIOMERE	PRE-HMIN
Miscellaneous	1	S1	2_DIP_SWITCH	2DIPSWITCH
Miscellaneous	1	X1	OSILATOR	XTAL18



ÜST KATMAN 3D GÖRÜNTÜ





**ALT KATMAN 3D GÖRÜNTÜ**