



aselsan

MESLEKİ VE TEKNİK ANADOLU LİSESİ

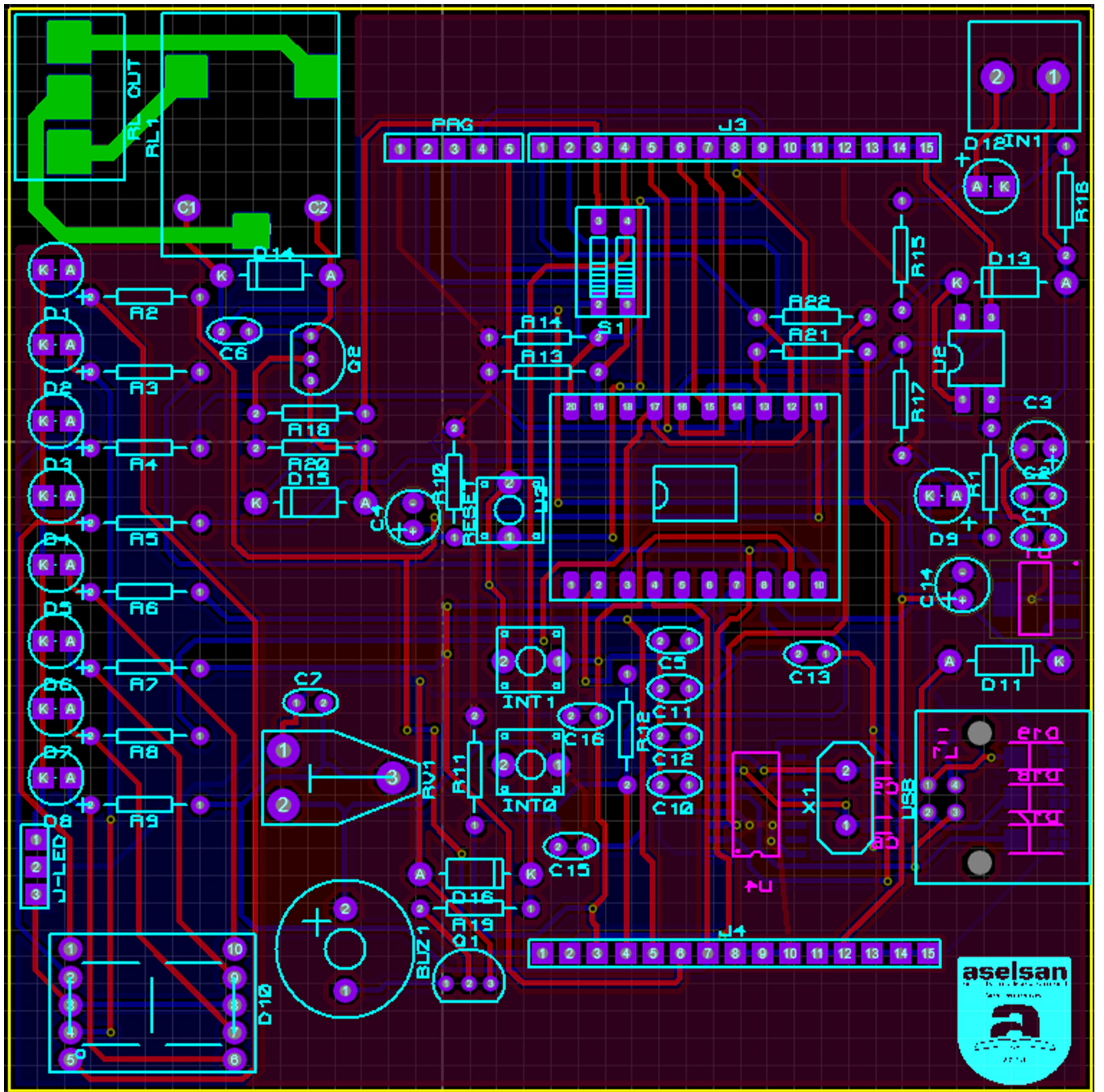
“güven veren gelecek”

Alper Çırıkçı

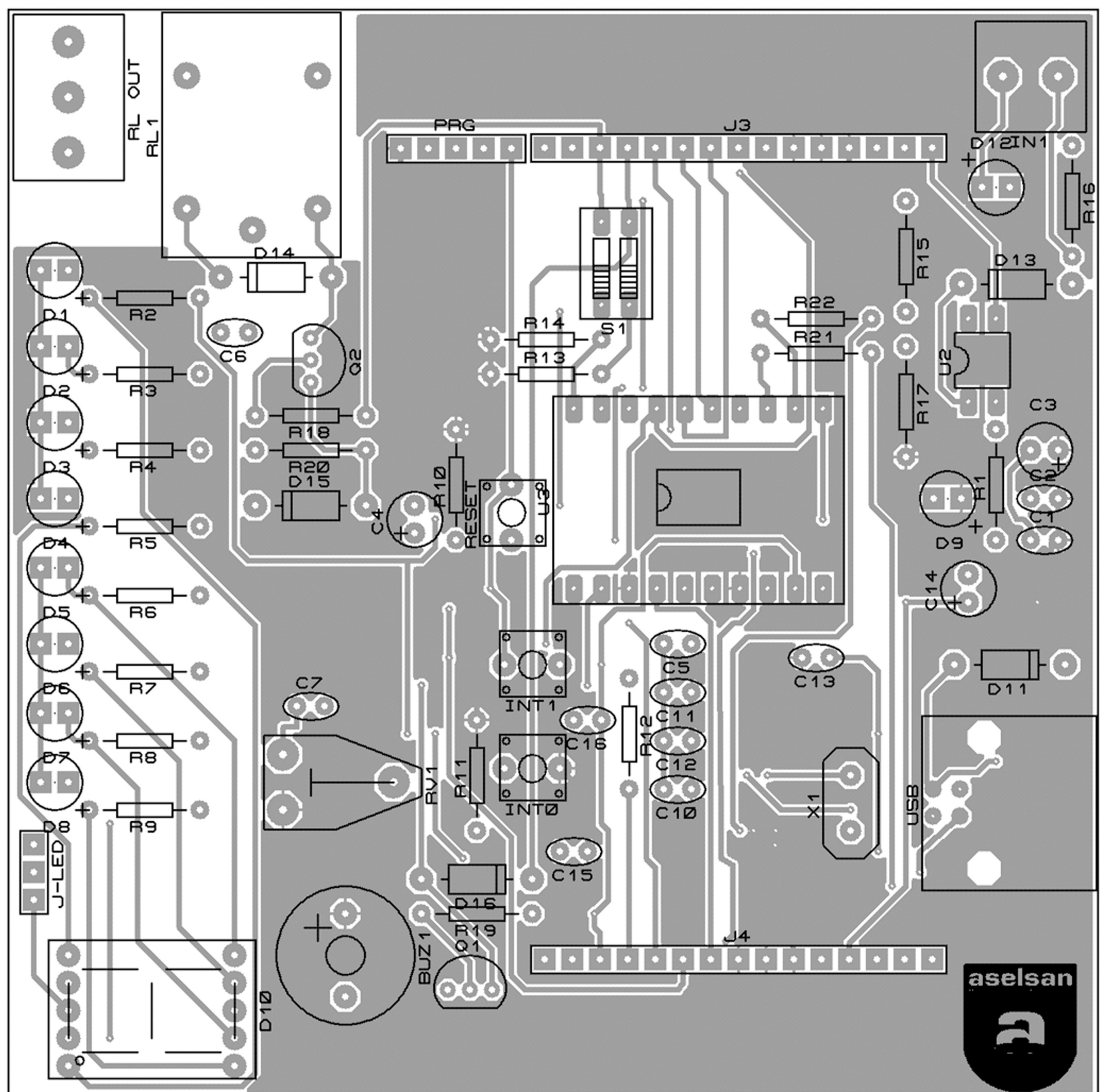
11/A - 12

Nuvoton M031FB0AE Geliştirme Kartı

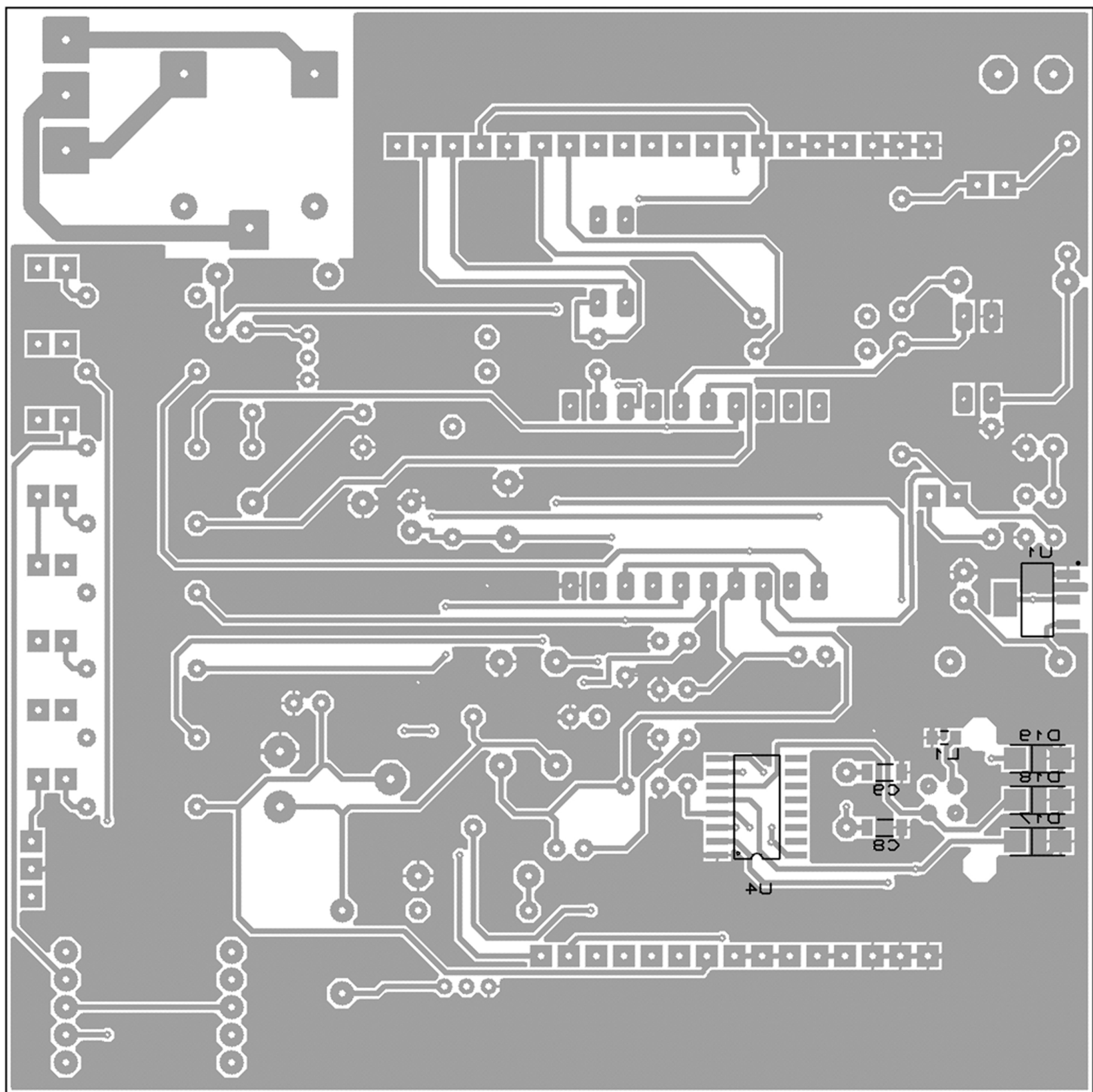
26.04.2023



GENEL BASKI DEVRE GÖRÜNÜŞÜ



ÜST KATMAN YERLEŞİM PLANI



ALT KATMAN YERLEŞİM PLANI

Bill Of Materials for ALPER_11A_12

Design Title ALPER_11A_12

Author

Document Number

Revision

Design Created 10 Nisan 2023 Pazartesi

Design Last Modified 26 Nisan 2023 Çarşamba

Total Parts In Design 79

0 Modules

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
				₺0,00

16 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
1	C1	220nF		
7	C2,C6-C7,C11,C13,C15-C16	100nF		
3	C3-C4,C14	10uF		
3	C5,C8-C9	22pF		
1	C10	1uF		
1	C12	10nF		

Sub-totals:

₺0,00

22 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
1	R1	470		
8	R2-R9	220		
4	R10-R12,R20	10k		
2	R13-R14	100k		
2	R15,R17	4k7		
1	R16	1.2k		
4	R18-R19,R21-R22	1k		

Sub-totals:

₺0,00

4 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
1	U1	LM1117MP-3,3		
1	U2	PC817		
1	U3	M031FB0AE		
1	U4	CH340G		

Sub-totals:

₺0,00

2 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
2	Q1-Q2	BC337		

Sub-totals:

₺0,00

19 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
10	D1-D9,D12	LED		
1	D10			
3	D11,D15-D16	1N5817		
2	D13-D14	1N4001		
3	D17-D19	SMAJ7.0		

Sub-totals:

₺0,00

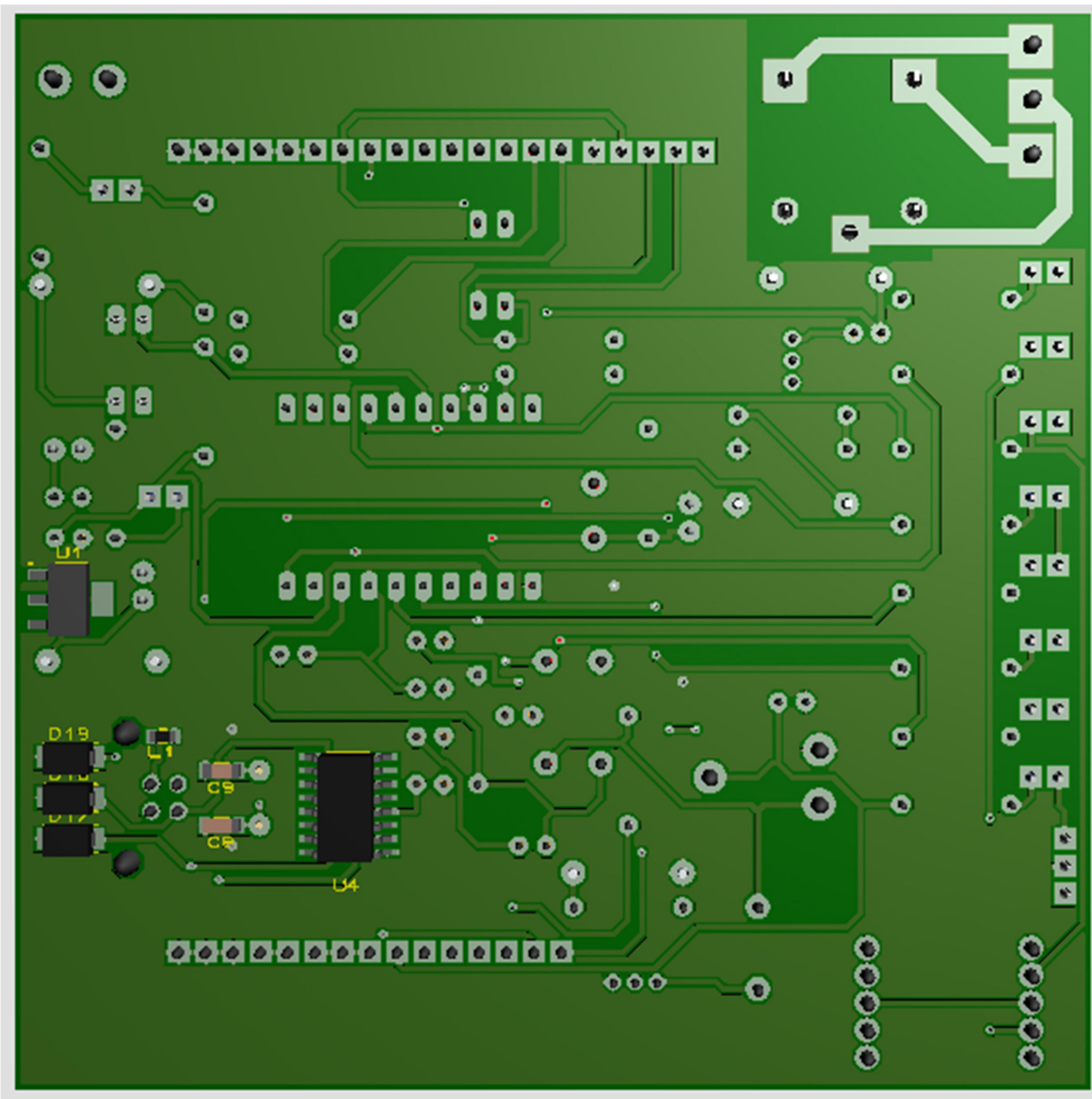
16 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
1	BUZ1	BUZZER		
1	IN1	2pin no 1 klemens		

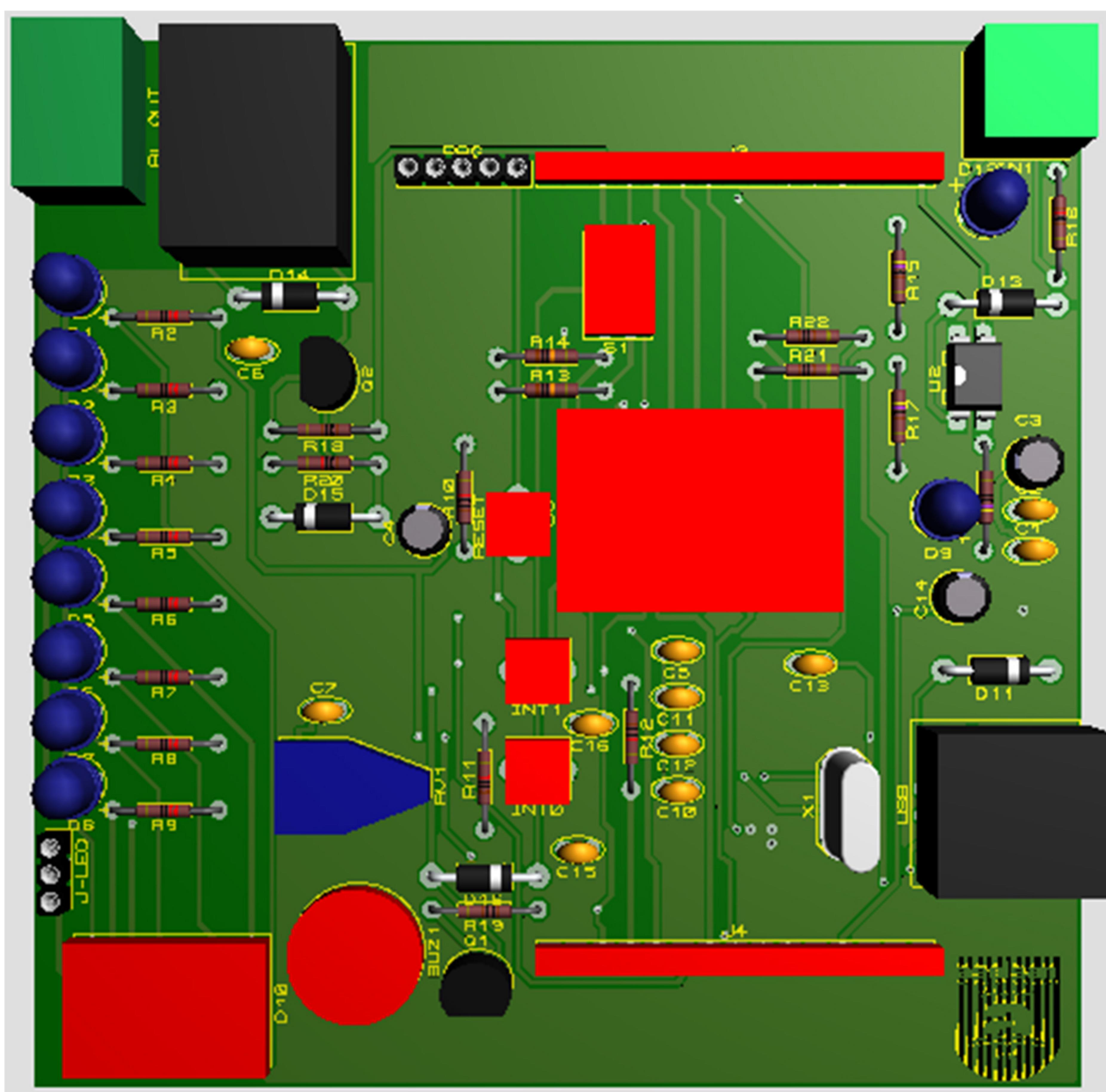
3	INT0-INT1,RESET		
2	J3-J4	15pin erkek header	
1	J-LED	2.54mm 3pin erkekpin	
1	L1	30R FERRITE BEAD	
1	PRG	5 pin erkek header	
1	RL1	Qianji - JQC-3FF-05VDC rôle	
1	RL OUT	3pin no 1 klemens	
1	RV1	yatık trimpot 10k(duz tomavida ayarlı)	
1	S1	DIP-SW2	
1	USB	CONN-H4	
1	X1	CRYSTAL 12Mhz	RES038
Sub-totals:			₺0,00

Totals:	₺0,00
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26 Nisan 2023 Çarşamba 20:10:27



ALT KATMAN 3D GÖRÜNTÜ



ÜST KATMAN 3D GÖRÜNTÜ