

# Bill Of Materials for ECE298\_Lab4 [20210801, 23-39-13]

**Design Title** ECE298\_Lab4 [20210801, 23-39-13]  
**Author**  
**Document Number**  
**Revision**  
**Design Created** December 15, 2020  
**Design Last Modified** August 2, 2021  
**Total Parts In Design** 82

## Notes

Operational Amplifier device (with footprint SOT-23-8) manufacturer is Texas Instruments and stock code at Digikey is LM2904LVDDFR  
CMOS 4049 device (with footprint DIL16) manufacturer is Fairchild Semiconductor and stock code at Digikey is CD4049UBCMX  
CMOS device (with footprint HSOP (8)) manufacturer is Texas Instruments and stock code at Digikey is DRV8871DDAR  
LSTTL device (with footprint DIL16) manufacturer is NXP Semiconductors and stock code at Digikey is 74HC238N

## 0 Modules

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>
--------------------------	----------------------------	-----------------------	----------------------------

Sub-totals:

## 13 Capacitors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>
--------------------------	----------------------------	-----------------------	----------------------------

8	C1-C3,C7-C11	10n	Farnell 499-225
3	C4-C6	10u	Digikey 445-1371-1-ND
2	C12-C13	100u	Digikey 495-2191-2-ND

Sub-totals:

## 31 Resistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>
--------------------------	----------------------------	-----------------------	----------------------------

13	R1-R3,R14,R16,R27,R33-R35,R37-R40	100K	Digikey P100KZTR-ND
2	R4,R28	300k	Digikey RT0805DRE07300KL-ND
4	R13,R17,R29-R30	165k	Digikey RT0805DRE07165KL-ND
4	R18,R20,R31-R32	330k	Digikey RT0805DRE07330KL-ND
5	R19,R36,R41-R43	200	Digikey 311-200CTR-ND
1	R21	255k	Digikey RT0805DRE07255KL-ND
2	R22,R26	64.9k	Digikey RT0805DRE0764K9L-ND

Sub-totals:

## 6 Integrated Circuits

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>
--------------------------	----------------------------	-----------------------	----------------------------

1	U1	LM2904LVDDF	
2	U3,U7	4049	
2	U4,U6	DRV8871	
1	U10	74HCT238	

Sub-totals:

## 16 Transistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>
--------------------------	----------------------------	-----------------------	----------------------------

16	Q1-Q4,Q17-Q28	2N7002	Digikey 2N7002NTR-ND
----	---------------	--------	----------------------

Sub-totals:

## 0 Diodes

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>
--------------------------	----------------------------	-----------------------	----------------------------

Sub-totals:

## 16 Miscellaneous

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>
--------------------------	----------------------------	-----------------------	----------------------------

7	+12V,+3.3V,+5V,GND,PWM1-PWM2,RS	PIN	
2	CN7,CN10	1-534236-9	1-534236-9
1	J1	TBLOCK-M2	
2	J4-J5	26630201RP2	NorComp 26630201RP2

1	J6	26641201RP2	NorComp 26641201RP2
1	J7	26641001RP2	NorComp 26641001RP2
1	J9	27640602RP2	NorComp 27640602RP2
1	J16	26640801RP2	NorComp 26640801RP2

Sub-totals:

---

Totals:

August 2, 2021 5:35:41 PM