

Bill Of Materials for: PRACTICUM GROUP THREE

Last modified: December 6th, 2022

PCB version: One

BOM revision: ONE P/NP = Place/Not Place (components marked NP are not stuffed on the board)

Cnt	Part References	P/NP	Mfg	Mfg PN	Description	Dist
1	MP1	P	Arduino	1050-1024-ND	Arduino Uno REV3 [A000066]	Amazon
1	SW_SPST	P	E-Switch	EG1218	3 Pin Verticle Slide Switch	Digi-Key
1	DISP	P	HiLetgo	03-01-1498	SPI Serial Interface Adapter 1602 LCD Display	Amazon
2	BS	NP	Duracell	9V-MN1604	Battery 9V Alkaline	Digi-Key
1	CLP	P	Keystone Electronics	2242	9V Battery Clip Connector to Breadboard	Digi-Key
1	SW1	P	Taiss	KY-040	Rotary Encoder Module with Knob	Amazon
4	CLP	P	Keystone Electronics	232	BATT CONN SNAP 9V 1 CEL 4" LEADS	Digi-Key
2	N/A	P	Preci-dip	801-87-032-10-001101	Dupoint header pins (straight)	Mouser
2	N/A	P	Preci-dip	801-87-036-20-001101	Dupoint header pins (90 degree)	Mouser
1	WIR	NP	ELEGOO	EL-CP-004	Breadboard Wire Male-Male Male-Female Female-Female	Amazon
4	PCB	P	OSH Park	--	PCB Boards	Oshpark

VERSION INFO

Rev	Date	Notes
1.Or1	2022-12-07	Finalizing for presentation
1.Or0	2022-11-09	Cleaned up parts, rough draft of board

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					Arduino Uno: https://www.amazon.com/Arduino-A000066-ARDUINO-UNO-R3/dp/B008G	
					LCD: https://www.amazon.com/HiLetgo-HD44780-I2C1602-Interface-Backlight/	
					Rotary Encoder: https://tinkersphere.com/buttons-switches/3045-rotary-encoder-module-1	
					OR https://www.amazon.com/Taiss-KY-040-Encoder-15%C3%9716-5-Arduino/	
					^this one has part number and model number, use whichever is easier ig	
					Battery clip connector: https://www.digikey.com/en/products/detail/keystone-electronics/232/30	
					^assume we're getting like 4 of these	
					90 degree Dupont header pins - male to female: https://www.mouser.com/ProductDetail/Preci-dip/801-87-036-20-001101	

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					and the straight ones	
					https://www.mouser.com/ProductDetail/Preci-dip/801-87-032-10-0011011	

Dist Part Number	Cost Ea.	Cost Total
A000066	\$28.50	\$28.50
EG1903-ND	\$0.76	\$0.76
B07W5KC65S	\$9.99	\$9.99
3046-9V-MN1604-ND	\$2.46	\$4.92
36-2242-ND	\$1.16	\$1.16
673257216465	\$9.99	\$9.99
36-232-ND	\$0.55	\$2.20
437-8018703210001101	\$3.26	\$6.52
437-8018703620001101	\$5.28	\$10.56
B01EV70C78	\$6.98	\$6.98
--	\$9.00	\$36.00
	TOTAL:	\$117.58

Dist Part Number	Cost Ea.	Cost Total
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3804

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Dist Part Number	Cost Ea.	Cost Total
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