Perinhera	l Controller	<b>Breadboard Bill</b>	of Materials

Peripheral Controller Breadboard Bill of Materials						12 - December - 2023		Jessica McArthur		
Item Number	Quantity	Compontent Type	Value	Project Component(s) Included	Package	Supplier	Part Number	Cost/Part (Based on 100 QTY)	Cost/ PCB	Cost for 100 PCB
	1	7 Resistor	100Ω	R1, R2, R3, R5, R7, R10, R13	SMD- 0805	Digi-Key Electronics	RNCP0805FTD100RCT-ND	\$0.03	\$0.21	\$20.79
	2	4 Resistor	1ΚΩ	R15, R18, R21, R22,	SMD- 0805	Digi-Key Electronics	RNCP0805FTD1K00TR-ND	\$0.03	\$0.11	\$10.84
	3	11 Resistor	330Ω	R4, R6, R8, R9, R11, R12, R14, R16, R17, R19, R20	SMD- 0805	Digi-Key Electronics	13-RC0805FR-7W330RLTR-ND	\$0.05	\$0.55	\$54.89
	4	4 Capacitor	.010μF, 6.3V	C1, C2, C3, C4	SMD- 0805	Digi-Key Electronics	399-17649-2-ND	\$0.15	\$0.60	\$60.44
	5	1 LED Array Bar	Red, 10 wide	BAR1	THD	Digi-Key Electronics	160-1066-ND	\$0.62	\$0.62	\$62.16
	6	1 Dip Switch	10 SPST	SW1	SMD	Digi-Key Electronics	2449-KG10E-ND	\$0.81	\$0.81	\$80.98
	7	6 Tactile Switch	SPST-NO 0.05A 12V	SW2, SW3, SW4, SW5, SW6, SW7	THD	Digi-Key Electronics	CKN9092-ND	\$0.18	\$1.10	\$110.16
	9	2 Rotary Encoder Switch	Incremental (Quadrature)	SW8, SW9	THD-Horizontal	Digi-Key Electronics	PEC12R-4125F-N0012-ND	\$0.97	\$1.94	\$194.21
	10	1 Pic 1788 Development Board	PCB	N/A	THD	ISU Robotics	N/A	\$5.00	\$5.00	\$500.00
	11	1 LED - Clear Standard	Yellow, 5mm,	D1	THD	Digi-Key Electronics	365-1183-ND	\$0.24	\$0.24	\$24.20
	12	1 Breadboard	Solderless	N/A		Digi-Key Electronics	1286-1220-ND	\$49.00	\$49.00	\$4,900.00
								Total Cost:	\$60.19	\$6,018.67