

Low Cost Pyranometer for KiloWatts for Humanity

Project: KiloWatts- Developing a low-cost pyranometer (One unit)

Last Updated 05/06/21

Expense Items (\$)	Year					
	Sept	Oct	Nov	Dec	Jan	Feb
Supplies / Parts / Services:						
Teflon Sheets						\$12.30
3D printing filament						\$20.59
2" Acrylic Disks						\$17.20
5V, 2A power source						
5V, 1A power source						
Arduino Nano Every Headers			\$4.99			
Resistors			\$6.99			
Capacitors			\$4.92			
Op Amp NJM5532DD - 10 pack			\$10.50			
Photo Transistor SFH 3310			\$8.57			
22 AWG 3-Conductor Wire, 100ft						
Adafruit QT py-4 count					\$24.00	
Arduino Nano Every - 6 pack			\$55.80			
Shipping costs/postage			\$19.05		\$9.59	\$32.18
Circuit Board						
Expo Costs						
Taxes			\$0.85			\$0.74
Shop Usage (Hrs):						
3D Printing						11
Prototype construction				2	2	6
Solar lamp calibration(?)						
Prototype field testing						

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			Item
Mar	Apr	May	Total
			\$12.30
			\$20.59
			\$17.20
	\$8.99	-\$8.99	\$0.00
		\$7.89	\$7.89
			\$4.99
			\$6.99
			\$4.92
			\$10.50
			\$8.57
	\$29.00		\$29.00
			\$24.00
			\$55.80
	\$9.57		\$70.39
	\$0.00		\$0.00
	\$69.00		\$69.00
			\$1.59
			Expense Subtotal
			\$343.73
			<u>Hours</u>
25	15	5	56
9	8		27
			0
	23	4	27
			0
			0
Shop Overhead			\$10.00
10% Error			\$34.37
Totals			\$388.10
			\$400.00
			\$11.90
			Costs Budget Excess