

Item	Unit Price	Quantity	Total Cost	Vendor	Vendor Link	Status	Ordered For	Bought By	Notes			
Polulu VL53L1X	\$10.99	7	\$76.93	Polulu	https://www.polulu.com/	Reimbursed 5 (M	Aashish/Dale	Aashish	Ordered 5 - removable needbe			
FX292X-100A-0100-L load sensor	\$22.51	1	\$22.51	Digikey	https://www.digikey.com/	Reimbursed		Aashish				
Sparkfun Copycat Load sensors (4 sensors + 1 HX711 amplifier bundle)	\$9.00	1	\$9.00	Amazon	https://www.amazon.com/	Reimbursed	Darren/Jason	Darren (1) Aashish (2)				
"	\$8.46	2	\$16.92	Amazon	https://www.amazon.com/	Reimbursed (Aas	Darren/Jason	Darren (1) Aashish (2)	Same as above, fluctuating price			
Velostat	\$4.95	2	\$9.90	Digikey	https://www.digikey.com/	Reimbursed		Aashish				
DB9 Connectors	\$8.43	1	\$8.43	Amazon	https://www.amazon.com/	Reimbursed		Aashish				
Cable Management	\$6.77	1	\$6.77	Amazon	https://www.amazon.com/	Reimbursed		Aashish				
Heat Shrink Solder Connectors	\$9.89	0	\$0.00	Amazon	https://www.amazon.com/	RETURNED		Aashish				
Particle Board	\$10.00	0	\$0.00	Lowe's	-	RETURNED		Dale				
Furniture Pads	\$11.65	1	\$11.65	Amazon		Reimbursed	Aashish	Aashish				
Copper Tape	\$6.34	1	\$6.34	Amazon	https://www.amazon.com/	Reimbursed	Jason	Aashish				
PCB Production	\$2.88	1	\$2.88	Amazon		-	Darren	Darren				
ESP32	\$10.00	2	\$20.00	Mouser Electronics	https://www.mouser.com/	-	N/A	N/A	does this need to be included in our budget sheet?			
Digikey Shipping	\$11.32	2	\$22.64			Reimbursed		Aashish??	Note sure what this amount should be			
Polulu Shipping	\$3.30	1				Reimbursed						

		Purchasing	\$213.97	Includes	Note: After planning this budget, we decided not to go forward in buying items prior to MS1. The reasoning behind this decision ultimately ended falling to the limitations in our budget we'd face by accruing extra surcharges by having to submit multiple POs in order to distribute the sensors to everyone effectively. Therefore, we've decided to initiate our ordering following MS1 after we've narrowed our final system design for the project. Therefore, the structure of this budget post-MS1 will change to a degree, in terms of the quantity and # of unique sensors we order.
*Shipping costs if not shown included in total cost		Net Units:	22	Padding Cost	

Final System - 100 \$ Budgets (2 Doors)

System 1 (with Amplifier)

Item 1	Price	Quantity	Cost		
Polulu VL53L1X Breakout	\$9.31	2	\$18.62	100+ Bulk Pricing	-
Geckstory Strain Gauges + HX711	\$7.98	2	\$15.96		could order four
ESP32	\$4.50	2	\$9.00	100+ Bulk Pricing	
Power Adapter (Buck Converter)	\$2.00	2	\$4.00		
Wood	\$10.00	2	\$20.00		
Furniture Pads	\$0.42	8	\$3.36		
PCB Production	\$0.56	2	\$1.12		
Wires	\$1.74	1	\$1.74	6.94/100ft (18aw ~25 conservatively	
DB9 Connectors	\$3.18	1	\$3.18	7.95/10m	4
Cable Management	\$2.00	1	\$2.00	6.69/25ft	~90 in
Shipping	\$5.00	2	\$10.00		

Expected Final Cost: \$88.98

System 3 (VeloStat)

Item 1	Price	Quantity	Cost		
Polulu VL53L1X Breakout	12	2	24		
Velostat	\$4.95	14	\$69.30		
Copper Tape	\$0.68	1	\$0.68	Kapton Tape: 8.50 @36 Yards	
Klaption Tape	\$0.69	1	\$0.69	Copper Tape: 4.99 @66 feet	
ESP32	10.99	1	10.99	Estimates are based on 3 yards.	
PCB Production	\$2.80	1	\$2.80		

Expected Final Cost: 108.46

Note: this "100\$ budget" doesn't encompass our final budget design. For now, it only serves to establish our givens and expected cost outcomes in this project and leave room in this budget for the final sensors we decide.

[illegible]