

Bill of Materials

* indicates optional items

Total Cost	\$1,629.38
Budget	\$2,000.00
Spending Money Left	\$370.62

Item	Description	Part Number	Quantity	Price (ea)	Shipping	Price total	Lead Time	Company	Phone	Email	Web Address	Note
FRAME												
Steel Stock												
Bike Frame												
1	2" OD 1/8" thick x 4ft tube (Axel)	T22125	1	36.92		36.92		Metals depot			meatalsdepot.com	
2	1.5" OD .12" Thick x 8ft tube (Handle bar)	T2W112120	1	33.92		33.92		Metals depot			meatalsdepot.com	
Base												
3	1ft x 1ft X 3/4 Plate	P134	1	75.13		75.13		Metals depot			meatalsdepot.com	
4	.75" OD x .12 wall x 6ft	T234120	1	25.38		25.38		Metals depot			meatalsdepot.com	
5	Pillow block bearings	6667K17	2	83.58		167.16	2 weeks	McMaster-Carr	(609) 259-8900		mcmaster.com	
6	Powder coating / paint		1	100.00		100.00	2 weeks	Mike Wlostowski	(716) 674-8954	mwspray@hotmail.com		
7	Hardware - nuts, bolt, loctite, odds and ends					40.00						
TILT RESISTANCE												
8	Pullies	1VN48	3	9.99		29.97		Grainger			grainger.com	
9	Hinges	16175A22	2	4.00		8.00		McMaster-Carr			mcmaster.com	
10	2" x 2" 3/16 X 4 Square tube	T122316	1	29.76		29.76		Metals depot			meatalsdepot.com	
11	Steel Plate for top of Post/ pulley brackets	S111	1	16.30		16.30		Metals depot			meatalsdepot.com	
12	Winch		1	350.00	0	350.00		Amazon				
13	Springs		5					Century Spring				
14	Cover Guard (36x72)		2	22.00		44.00	pick up	Home-depot	(609) 259-8900		mcmaster.com	
HANDLE BARS												
15	Handle bars		1	donation (\$?)	0	0.00	received	Bert's Bikes	(716) 646-0028	tengel@bertsbikes.com	bertsbikes.com	
16	Pivot for Handle Bars		1	67.00		67.00		Locking Tech				
17	Spacer for handle bar pivot to mount	R3114	1	7.92		7.92		Metals depot			meatalsdepot.com	
18	1" OD x .125" Wall X 2ft (Aluminimu handle bars u	T3R1125	1	7.26		7.26		Metals depot			meatalsdepot.com	
19	Handle bars T connection	4698T115	1	12.99		12.99		McMaster-Carr	(609) 259-8900		mcmaster.com	
20	*Handlebar Grips		1	20.00		20.00		Bert's Bikes	(716) 646-0028	tengel@bertsbikes.com	bertsbikes.com	
21	*Hand Straps - Nordic Walking		1	donation (\$20)	0	0.00	2 weeks	Leki	1-800-255-9982 (x18)	lindy@leki.com	www.leki.com	asking for donation
SEAT												
22	Schwinn Airdyne Seat		1	donation (\$40)	14	14.00	pick up	G & G Fitness	(585) 427-7630	tgarbach@livefit.com	livefit.com	asking for donation
23	Seat Post		1	7.42		7.42	2 weeks	Sportsmith				
24	Pin for telescoping seat height		1	4.82		4.82	2 weeks	Sportsmith				

PEDALS												
25	Schwinn Wide Ride Pedals		1	donation (\$33)	0	0.00	received	G & G Fitness	(585) 427-7630	tgarbach@livefit.com	livefit.com	asking for donation
26	Friction pedal device	P553-00	1	39.94	0	39.94	3 weeks	walmart			walmart.com	
MISC												
27	Pin for locked position	Multi	1	10		10.00						
28	Antifatigue Rubber Mat	6914T35	1	86.70		86.70	4 weeks	McMaster-Carr	(609) 259-8900		mcmaster.com	
29	Leveling Feet	90595	1	1.96		1.96	2 weeks	Sportsmith				
FEEDBACK SYSTEM												
30	LED array	HDSP-4836	4	6.53		26.12		Mouser				In stock
31	Sensor (requested)	H4A1-30	1	189.00		189.00		Rieker				In-stock
32	Resistors and Caps (Estimate)											
33	Sensor (obtained)	MMA120EG	2	0.00				Freescall				Received
34	Buzzer (Fast Pulse)	CPE-351	2	5.17		10.34		Digi-Key				In-Stock
35	Buzzer (Slow Pulse)	CPE-353	2	4.95		9.90		Digi-Key				
36	Printed Circuit Board	TBD	2	51.00		102.00		Express PCB				Custom Made- Lead Time TBD
37	Comparator	AD8564AN	6	0.00				Analog				Received
38	Comparator	AD8564AN	4	7.21		28.84		Digi-Key				In-Stock
39	Audio Logic - XOR Gates	N74LVC2G86	5	0.15		0.75		Digi-Key				In-Stock
40	Audio Logic - NAND Gates	CD74AC00M	5	0.56		2.80		Digi-Key				In-Stock
41	Op-Amp	LM741	4	0.39		1.57		Digi-Key				In-Stock
42	Instrumentation Amplifier	AD620	3	5.84		17.52		Digi-Key				In-Stock
43	Display Enclosure											
44	Power Supply 9 VDC from Outlet											
45	Voltage Regulator (9V to 5V)	LM340	3	1.33		3.99		Digi-Key				In-Stock