Center of Mass Calculations		Reference origin is the right rear of the cart			
	x (in)	y (in)	weight (lb)	xm (in-lb)	ym (in-lb)
Wheel 1 (large)	5	11	12	60	132
Wheel 2 (large)	40	11	12	480	132
Controller 1	30.5	10.5	9	274.5	94.5
Controller 2	22	10.5	9	198	94.5
Batteries	14.5	48	240	3480	1152
Chair (with driver, variable)	29.5	38	165	4867.5	6270
Wheel 1 (small)	2.75	77.5	6	160.5	465
Wheel 2 (small)	41.25	77.5	6	246	465
Motor 1	23	5.75	50	1150	287.5
Motor 2	22	13.5	50	1100	675
Solenoids	12	10.5	4	48	42
Frame	22	26	180	3960	4680
Total			743	16024.5	14489.5
Center of Mass	21.373 (from right)	19.5 (from rear)			
Actual length and width	37.07	62.82			