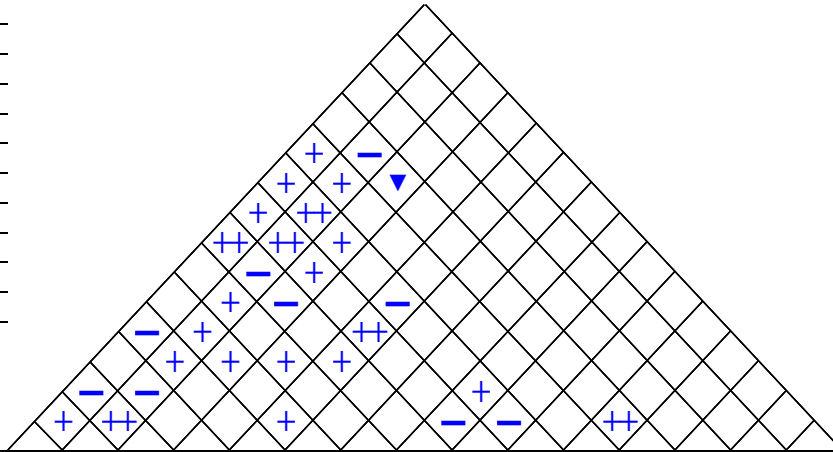
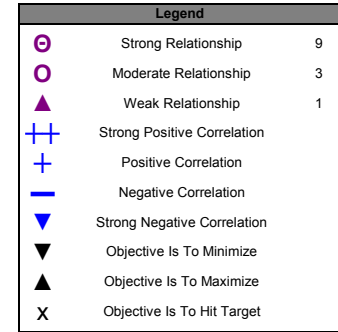
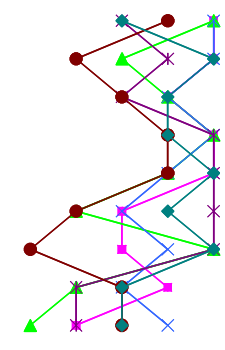


**Title:** Automatic Lift Bed  
**Author:** Jae Sung Song / David Chen / Nathaniel Steven  
**Date:** 03/22/2012  
**Notes:**



Row #	Max Relationship Value in Row	Relative Weight	Weight / Importance	Quality Characteristics (a.k.a. "Functional Requirements" or "Hows")	Direction of Improvement: Minimize (▼), Maximize (▲), or Target (x)	Column #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Competitive Analysis (0=Worst, 5=Best)									
						Maximum load	Weight of structure	Weight of moving part	Total height of bed frame	Number of posts	Area occupied	Headroom clearance	Material strength	Number of frame structures	Use of metal parts	Use of electric motor	Energy Efficient	Our Company	Lifted by LiftBed	Hiddenbeds by Lift and Storbeds	Wall beds by Lift and Storbeds	Total Lift Bed by VitalGo	Wall Beds by TX Wall Beds								
1	9	13.9	5.0	Usability Easy to use			▲	▲	○	○		○					○						5	5	5	3	4	3			
2	9	13.9	5.0	Usability Fits full size bed (54 x 75 inches)								○											5	3	5	4	2	5			
3	9	11.1	4.0	Usability Comfortable					○	○	○												4	4	4	3	3	4			
4	9	11.1	4.0	Dimensions Takes small space					▲	○	○	▲			▲								5	5	5	5	4	4			
5	9	13.9	5.0	Performance Safe to 1000lbs		○	○	○	○	○		▲	○	○	○	○	▲						5	4	4	5	4	5			
6	9	11.1	4.0	Asthetic Looks very solid					▲	○	○	○			○	○							3	2	3	5	2	4			
7	3	8.3	3.0	Asthetic Looks nice as a furniture					▲	○	○	○			▲	▲							3	5	4	5	1	5			
8	9	8.3	3.0	Misc Speed of transition		▲		○									○						4	2	3	2	3	3			
9	9	8.3	3.0	Misc Price			▲	○	○					○	○	○	○	○					2	1	4	2	3	3			
10																															
<b>Target or Limit Value</b>						1000 lbs	less than 800 lbs	less than 200 lbs	Around 8 feet	Less than 4	Full size bed	6.5 ft			Less																
<b>Difficulty (0=Easy to Accomplish, 10=Extremely Difficult)</b>						7	6	7	2	8	1	4	7	7	5	5	7														
<b>Max Relationship Value in Column</b>						9	9	9	3	9	9	9	9	9	9	9	9	3													
<b>Weight / Importance</b>						133.3	147.2	188.9	172.2	391.7	316.7	225.0	150.0	252.8	158.3	288.9	25.0														



<b>Relative Weight</b>	5.4	6.0	7.7	7.0	16.0	12.9	9.2	6.1	10.3	6.5	11.8	1.0			
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