

Correlations		
Positive +		
Negative -		
No Correlation		

Relationships		
Strong ●		
Moderate ○		
Weak ▽		

Direction of Improvement		
Maximize ▲		
Target ◊		
Minimize ▼		

# QFD

## House of Quality

Row #	Weight Chart (Calculated)	Relative Weight (calculated)	Strategic Importance (Team Sets 1-5)	Max Relationship (Red is Negative)	Column #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
						Pushability - robot	Maneuverability	Drive Speed	Center of Gravity	Catcher	Launcher	Floor Pick-up	High Goal Blocker	Bulldozer -ball	Auton Auto Target	Auton Timed Control	Ball Ejector	Dead Roccning-Camera	Vision-Auto Targeting	Distance Sensor	Auton Light Sensing	Hopper	Durability	
1		0%																						
2		4%	3 9	<b>Auton multi ball</b>		● ●	○			● ●				○	● ●			● ●	● ●	● ●	● ●	● ●		
3		7%	5 9	<b>Auton Move Forward</b>		▽ ●	●		▽							●	●		▽					
4		7%	5 9	<b>Auton High Goal</b>		● ● ●	● ● ●	● ● ●	▽		●				● ● ●				● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	
5		7%	5 9	<b>Auton Low Goal</b>		● ● ●	● ● ●	● ● ●	▽		▽			●	● ● ●				● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	
6		4%	3 9	<b>Auton Hot Goal</b>		● ● ●	● ● ●	● ● ●	▽		●			○	● ● ●				● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	
7		7%	5 9	<b>Throw Over Truss</b>		○ ○ ▽					●								●	● ●	● ●	● ●	● ●	
8		6%	4 9	<b>Catch a Ball</b>		○ ● ●	● ● ●	● ● ●	○	●								●	▽ ▽	▽ ▽	▽ ▽	● ●	● ●	
9		7%	5 9	<b>Launch High Goal</b>		○ ● ● ●	● ● ● ●	● ● ● ●			●							● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	
10		4%	3 9	<b>Low Goal</b>		● ● ● ●	● ● ● ●	● ● ● ●			○			●				● ●	▽ ▽	▽ ▽	▽ ▽	● ●	● ●	
11		7%	5 9	<b>2nd Assist</b>		● ● ● ●	● ● ● ●	● ● ● ●		▽	▽	●		●				● ●	● ●	● ●	● ●	○ ○	● ●	
12		6%	4 9	<b>3rd Assist</b>		● ● ● ●	● ● ● ●	● ● ● ●		▽	●			●				● ●	● ●	● ●	● ●	○ ○	● ●	
13		0%	9	<b>Possesing Other Team ball</b>		○ ○ ▽			▽	▽	▽					●					▽ ▽	▽ ▽		
14		4%	3 9	<b>Defense of high goal</b>		● ● ● ●	● ● ● ●	● ● ● ●	●				●				▽		▽				● ●	
15		4%	3 9	<b>Defense of low goal</b>		● ● ● ●	● ● ● ●	● ● ● ●	○								▽		▽				● ●	
15		4%	3 9	<b>Defense-Auton Goal Zone</b>		○ ● ● ●	● ● ● ●	● ● ● ●	●				●				▽	▽	○ ○	▽	▽		● ●	
15		6%	4 9	<b>Pushing</b>		● ● ● ●	● ● ● ●	● ● ● ●	●														● ●	
15		0%	9	<b>20" Extension</b>						●	●	●	●	▽			▽				●			
15		7%	5 9	<b>Human Player Loading</b>		● ● ● ○	● ● ● ○	● ● ● ○		●	●	●	●	●	●					● ●	● ●	● ●		
15		4%	3 9	<b>Human Player Passing</b>		● ● ● ○	● ● ● ○	● ● ● ○		●	●	●	●	●	●		●			●	●	●		
16		3%	2 9	<b>Goallie 6" cylindrial Height</b>		● ● ● ●	● ● ● ●	● ● ● ●	●				●				▽	▽	▽	▽			● ●	
						<b>Target (What we want)</b>																		
						Max Relationship (Red is Negative)	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
						Difficulty Rating (Impact vs. Effort) 5=High impact/Little effort	2	3	4	3														
						Technical Importance Rating	4.8429	8	7.7429	2.2286	1.6714	3.3571	2.5714	1.0286	3.4714	2.0571	2.3143	0.1571	3.3429	2.9143	3.7714	0.8143	2.04286	5.0143
						Relative Weight	10%	16%	15%	4%	3%	7%	5%	2%	7%	4%	5%	0%	7%	6%	8%	2%	4%	10%
						Weight Chart																		

