Design Project = RSL Rover System= Lidar Configuration

	TARGET	DESIGN IDEAS														
	or															
CRITERIA	FACTOR	1 = Baselii	ne	Case B		Case C		Case D			0	0	0	0	0	0
Time – Design	1	1		1		1										
Time – Build	1	1		1		1										
Time – Test	1	1		1		1										
Time Score	10		10		10.00		10.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Cost – Prototype	1	\$ 1.00		\$ 1.00		\$ 1.00										
Cost – Production	1	\$ 1.00		\$ 1.00		\$ 1.00										
Cost Score	10		10		10.00		10.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Implementation Time	3.5	3	10.5	4	14	4	14	5			0	0	0	0	0	0
Forward FOV	9	3	27	3	27	3	27	3			0	0	0	0	0	0
Reverse FOV	3.5	3	10.5	3	10.5	3	10.5	3			0	0	0	0	0	0
Side FOV	7.5	3	22.5	4	30	3	22.5	4			0	0	0	0	0	0
Blind Spots	7	3	21	2	14	3	21	2			0	0	0	0	0	0
Weight	0	3	0	3	0	3	0	3			0	0	0	0	0	0
Material Cost	4.5	3	13.5	4	18	3	13.5	4			0	0	0	0	0	0
Perspective Height	5	3	15	4	20	3	15	4			0	0	0	0	0	0
Vertical Clearance	1	3	3	3	3	3	3	3			0	0	0	0	0	0
Electrical Power	7.5	3	22.5	3	22.5	3	22.5	3			0	0	0	0	0	0
Robustness	6.5	3	19.5	4	26	3	19.5	4			0	0	0	0	0	0
0	11	3	33		0		0				0	0	0	0	0	0
	TOTAL		198.0		185.0		168.5		20.0		20.0	20.0	20.0	20.0	20.0	20.0
	RANK															
	% MAX		100.0%		93.4%		85.1%		10.1%		10.1%	10.1%	10.1%	10.1%	10.1%	10.1%

MAX 198.0

NOTE: User fills in Purple areas, gold areas are calculated or fixed Light blue areas filled from prioritizing matrix

Case A

Design	Idea	Descri	ptions

2 Case B 3 Case C 4 Case D 6 7 8 9

BASELINE =

Timescore(i)=Timescore(B)*(TD(i)/TD(B) + TB(i)/TB(B) + TT(i)/TT(B))/3 Costscore(i) = Costscore(B)*(Cprot(i)/Cprot(B) + Cprod(i)/Cprot(B))/2

Total(i) = SUM(Factor(j)*Comparison(i,j)) + (Timescore(B)-Timescore(i)) + (Costscore(B)-Costscore(i)) + (Costscore(B)-Costscore(B)-Costscore(i)) + (Costscore(B)-Costscore(B)-Costscore(i)) + (Costscore(B)-Costsc

Comparison(i,j) = 5 if idea "i" is much better than baseline for criteria "j"

Comparison(i,j) = 4 if idea "i" is better than baseline for criteria "j"

Comparison(i,j) = 3 if idea "i" is same as baseline for criteria "j"

Comparison(i,j) = 2 if idea "i" is worse than baseline for criteria "j"

 $Comparison(i,j) = 1 \ if \ idea \ "i" \ is \ much \ worse \ than \ baseline \ for \ criteria \ "j"$