

Product: UAV
Subsystem: PAYLOAD/Unmanned Ground Vehicle (UGV)

Target Design Requirements		Importance	1	2	3	5	6	7	Market Responce
1	Complies with competition rules	5	●					●	Good
2	Capable of lowering the payload to the ground	5	●	●					Very Good
3	Lands UGV within landing zone	3				●	●		Neutral
5	Delivers UGV without damage	3		●		●		●	Good
6	Deployable from airframe	4			●				Very Good
7	Does not interfere with takeoff/landing	3	●						Very Good
8	Causes minimal aerodynamic interference	3							Good
9	Drop mechanism does not interfere with UGV movement	2				●	●		Very Good

*To be measured during system refinement stage

Subsystem Performance Measures		Units
	Drop mechanism mass	kg
	Weight mechanism can support	N
	Aircraft internal volume consumed*	cubic centimeters
	Maximum landing velocity	m/s
	UGV landing distance from target	m
	Rule violations	cnt