Olin Rocketry

Recovery Technology Development Plan

Document Information		
Author	Argyris Kriezis	2/26/19
Current Version	Version 1	
Release Date	3/5/19	
Signatures		
Author	Argyris Kriezis	2/26/19
Revision History		
Version 1	3/5/19	Initial Release

Recovery Technology Development Plan

1.0 Overview:

We know that other teams have achieved a dual event deployment recovery technic and we want to replicate it using CO_2 instead of black powder. We have previously observed the deployment of a main chute through a drogue, however aside from that we are essentially starting from ground zero in knowledge of recovery technologies.

2.0 Technology Readiness Level Timeline:

TRL Level	Technology Status	Date in Program
1	Principles Observed	Done
2	Application Validated	Done
3	Proof-of-Concept Demonstrated	After Spring Break
4	Flight Hardware Demonstrated	Fall 2019
5	Flight Hardware Demonstrated in Simulated Environment	Fall 2019
6	Demonstration in tandem with other subsystems	Early Spring 2020
7	Flight Validated	IREC 2020

3.0 TRL Gateways:

TRL Level Achieved	Test to be Performed
1	n/a
2	n/a
3	Sub-system test with dummy nose cone
4	Sub-system test in full dimensioned model
5	Drone drop test
6	Use trigger from avionics
7	Mission flown

Rocketry