

Preliminary Design Review					
Judge 1:			Judge 2:		
	Score	Comments		Score	Comments
<b>Introduction</b>			<b>Introduction</b>		
Presentation Outline	2		Presentation Outline	2	
Team Organization	2		Team Organization	2	
Acronyms	2		Acronyms	2	
<b>Systems Overview</b>			<b>Systems Overview</b>		
Mission Summary	2		Mission Summary	2	
System Requirement Summary	2		System Requirement Summary	2	
System-Level CanSat Configuration Trade & Selection	2		System-Level CanSat Configuration Trade & Selection	2	
System Concept of Operations	2		System Concept of Operations	2	
Physical Layout	2		Physical Layout	2	
Launch Vehicle Compatability	2		Launch Vehicle Compatability	2	
<b>Sensor Subsystem Design</b>			<b>Sensor Subsystem Design</b>		
Sensor Subsystem Overview	2		Sensor Subsystem Overview	2	
Sensor Subsystem Requirements	2		Sensor Subsystem Requirements	2	
GPS Trade & Selection	2		GPS Trade & Selection	2	
Non-GPS Attitude Sensor Trade & Selection	2		Non-GPS Attitude Sensor Trade & Selection	2	
Air Temperature Trade & Selection	2		Air Temperature Trade & Selection	2	
Video Camera Trade & Selection (Selectable)			Video Camera Trade & Selection (Selectable)		
Impact Force Sensor Trade & Selection (Selectable)	2		Impact Force Sensor Trade & Selection (Selectable)	2	
<b>Descent Control Subsystem Design</b>			<b>Descent Control Subsystem Design</b>		
Descent Control Subsystem Overview	2		Descent Control Subsystem Overview	2	
Descent Control Requirements	2		Descent Control Requirements	2	
Container Descent Control Strategy Selection and Trade	1	Container should just use a parachute as a passive descent control.	Container Descent Control Strategy Selection and Trade	1	Container should use a passive system for descent control
Payload Descent Control Strategy Selection and Trade	0	The payload needs to separate at 400 meters and come down on something besides a parachute.	Payload Descent Control Strategy Selection and Trade	0	Missing. Payload needs to separate from the container and come down using a system that is not a parachute
Descent Rate Estimates	1	No calculation results.	Descent Rate Estimates	1	No calculations performed.
<b>Mechanical Subsystem Design</b>			<b>Mechanical Subsystem Design</b>		
Mechanical Subsystem Overview	2	A picture here would be nice even if it is a repeat.	Mechanical Subsystem Overview	2	
Mechanical Subsystem Requirements	2		Mechanical Subsystem Requirements	2	
Egg Protection Trade & Selection	2		Egg Protection Trade & Selection	2	
Mechanical Layout of Components Trade & Selection	1	Hand drawings would be acceptable. Anything visual to show you have worked on a layout.	Mechanical Layout of Components Trade & Selection	1	Need visual drawing of layout
Material Selections	0		Material Selections	0	
Container-Payload Interface	0		Container-Payload Interface	0	
Structure Survivability Trades	0		Structure Survivability Trades	0	
Mass Budget	2		Mass Budget	2	
<b>Communication and Data Handling Subsystem Design</b>			<b>Communication and Data Handling Subsystem Design</b>		
CDH Overview	2		CDH Overview	2	
CDH Requirements	2		CDH Requirements	2	
Processor and Memory Trade & Selection	2		Processor and Memory Trade & Selection	1	How did you derive those numbers for memory?
Antenna Trade & Selection	2		Antenna Trade & Selection	2	
Radio Configuration	2		Radio Configuration	2	
Telemetry Format	2		Telemetry Format	1	Specify the units you will use and give an example of what a packet will look like. Also give a total byte count.
Activation of Telemetry Transmissions	0	Need activation info not termination	Activation of Telemetry Transmissions	0	Need activation info, not termination.
Audible Locating Device Trade & Selection	2		Audible Locating Device Trade & Selection	2	
<b>Electrical Power Subsystem Design</b>			<b>Electrical Power Subsystem Design</b>		
EPS Overview	1	Block diagram would be better.	EPS Overview	1	A block diagram would be better.
EPS Requirements	2		EPS Requirements	2	
Electrical Block Diagram	2		Electrical Block Diagram	2	
Power Budget	2		Power Budget	2	
Power Source Trade & Selection	2		Power Source Trade & Selection	2	
Battery Voltage Measurement Trade & Selection	2		Battery Voltage Measurement Trade & Selection	2	
<b>Flight Software Design</b>			<b>Flight Software Design</b>		
FSW Overview	2		FSW Overview	2	
FSW Requirements	2		FSW Requirements	2	

CanSat FSW State Diagram	2	I think you are sampling the pressure and temperature sensors much too fast.	CanSat FSW State Diagram	2	You don't need to sample that fast.
Software Development Plan	0		Software Development Plan	0	
Ground Control System Design			Ground Control System Design		
GCS Overview	2		GCS Overview	2	
GCS Requirements	2		GCS Requirements	2	
GCS Antenna Trade & Selection	2		GCS Antenna Trade & Selection	2	
GCS Software	0	missing. At least identify what software you plan to use.	GCS Software	0	What software will you use?
CanSat Integration and Test			CanSat Integration and Test		
CanSat I&T Overview	1	Need to describe how the tests are to be performed, not just list them.	CanSat I&T Overview	1	Need to add how the tests will be performed
Mission Operations and Analysis			Mission Operations and Analysis		
Overview of Mission Sequence of Events	2		Overview of Mission Sequence of Events	2	
Mission Operations Manual Development Plan	0	Missing this information	Mission Operations Manual Development Plan	0	
CanSat Location and Recovery	2		CanSat Location and Recovery	2	
Management			Management		
CanSat Budget - Hardware	2		CanSat Budget - Hardware	2	
CanSat Budget - Other Costs	0	Need to show travel cost estimate	CanSat Budget - Other Costs	0	
Program Schedule	2		Program Schedule	2	
Conclusions	2		Conclusions	2	
Quality			Quality		
Quality	7		Quality	6	
Handling of Questions	2		Handling of Questions	2	