

Preliminary Design Review		Team 5524	Total PDR Score: 98.33%		
Judge 1	Score	Comments	Judge 2	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	1	No trade on payload descent control concepts	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	
Non-GPS Attitude Sensor Trade & Selection	2		Non-GPS Attitude Sensor Trade & Selection	2	
Air Temperature Trade & Selection	2		Air Temperature Trade & Selection	2	
Bonus Objective Trade & Selection	2		Bonus Objective Trade & Selection	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	2		Container Descent Control Strategy Selection and Trade	2	
Payload Descent Control Strategy Selection and Trade	2		Payload Descent Control Strategy Selection and Trade	2	
Descent Rate Estimates	2		Descent Rate Estimates	2	
<b>Mechanical Subsystem Design</b>			<b>Mechanical Subsystem Design</b>		
Mechanical Subsystem Overview	2		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	2		Mechanical Layout of Components Trade & Selection	2	
Material Selections	2		Material Selections	2	
Container-Payload Interface	2		Container-Payload Interface	2	
Structure Survivability Trades	2		Structure Survivability Trades	2	
Mass Budget	2	no margins. Make sure it totals to 600 grams as required.	Mass Budget	2	
<b>C&amp;DH Subsystem Design</b>			<b>C&amp;DH 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	2	
Antenna Trade & Selection	2		Antenna Trade & Selection	2	
Radio Configuration	2		Radio Configuration	2	
Telemetry Format	2		Telemetry Format	2	
<b>Electrical Power Subsystem Design</b>			<b>Electrical Power Subsystem Design</b>		
EPS Overview	2		EPS Overview	2	
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	
Power Source Voltage Measurement Trade & Selection	2		Power Source Voltage Measurement Trade & Selection	2	
<b>Flight Sowftware Design</b>			<b>Flight Sowftware Design</b>		
FSW Overview	2		FSW Overview	2	
FSW Requirements	2		FSW Requirements	2	
CanSat FSW State Diagram	2		CanSat FSW State Diagram	2	
Software Development Plan	2		Software Development Plan	2	
<b>Ground Control System Design</b>			<b>Ground Control System Design</b>		
GCS Overview	2		GCS Overview	2	
GCS Requirements	2		GCS Requirements	2	
GCS Antenna Trade & Selection	2		GCS Antenna Trade & Selection	2	
GCS Software	1	Should specify software tools you are considering.	GCS Software	1	what commercial off the shelf software packages will you use?
<b>CanSat Integration and Test</b>			<b>CanSat Integration and Test</b>		

CanSat I&T Overview	2	CanSat I&T Overview	2
<b>Mission Operations and Analysis</b>		<b>Mission Operations and Analysis</b>	
Overview of Mission Sequence of Events	2	Overview of Mission Sequence of Events	2
Mission Operations Manual Development Plan	2	Mission Operations Manual Development Plan	2
CanSat Location and Recovery	2	CanSat Location and Recovery	2
<b>Management</b>		<b>Management</b>	
CanSat Budget - Hardware	2	CanSat Budget - Hardware	2
CanSat Budget - Other Costs	2	CanSat Budget - Other Costs	2
Program Schedule	2	Program Schedule	2
Conclusions	2	Conclusions	2
<b>Quality</b>		<b>Quality</b>	
Quality	7	Quality	9
Handling of Questions	2	Handling of Questions	2