

Preliminary Design Review		Team 5524		Total PDR Score: 98.33%		
Judge 1	Score	Comments	Judge 2	Score	Comments	
Introduction			Introduction			
Presentation Outline	2		Presentation Outline	2		
Team Organization	2		Team Organization	2		
Acronyms	2		Acronyms	2		
Systems Overview			Systems Overview			
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		
Sensor Subsystem Design			Sensor Subsystem Design			
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		
Descent Control Subsystem Design			Descent Control Subsystem Design			
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		
Mechanical Subsystem Design			Mechanical Subsystem Design			
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		
C&DH Subsystem Design			C&DH Subsystem Design			
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		
Electrical Power Subsystem Design			Electrical Power Subsystem Design			
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		
Flight Sowftware Design			Flight Sowftware Design			
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		
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	1	Should specify software tools you are considering.	GCS Software	1	what commercial off the shelf software packages will you use?	
CanSat Integration and Test			CanSat Integration and Test			

CanSat I&T Overview	2		CanSat I&T Overview	2	
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	2		Mission Operations Manual Development Plan	2	
CanSat Location and Recovery	2		CanSat Location and Recovery	2	
Management			Management		
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	
Quality			Quality		
Quality	7		Quality	9	
Handling of Questions	2		Handling of Questions	2	