Preliminary Design Review			Team 1095		Total PDR Sc	ore	: 70.51%		
Judge 1		Score		Judge 2			e Comments		
Introduction	Expectations Identify all major sections with			Introduction	Expectations Identify all major sections with page				
Presentation Outline	page numbers	2		Presentation Outline	Inumbers	2		4	2
	Show organization of team. No more than 10 students allowed.				Show organization of team. No more than 10 students allowed.				
Team Organization	Faculty not counted.	2		Team Organization	Faculty not counted.	2		4	2
Acronyms	List of words and abbreviations with definitions.	2		Acronyms	List of words and abbreviations with definitions.	2		4	2
Acronyms Systems Overview				Systems Overview					
Mission Summary	Description of mission. Copying from the guide is fine.	2		Mission Summary	Description of mission. Copying from the guide is fine.	2		4	2
	List of high level requirements. Deployment, events at specific				Liet of high level requirements				
System Requirement Summary	altitudes, mode of descent.	2		System Requirement Summary	Deployment, events at specific altitudes, mode of descent.	2		4	2
System-Level CanSat Configuration Trade & Selection	Picture and description of overall			System-Level CanSat Configuration Trade & Selection	Distance and description of suscell				
	structure showing payload descent				Picture and description of overall structure showing payload descent				
Configuration A, with diagrams	method, container. Same as above but has to be	1	missing pictures/diagrams	Configuration A, with diagrams	method, container.	1		2	2
Configuration B, with diagrams	different design. Identifies selection and provides a	2		Configuration B, with diagrams	Same as above but has to be different design. Identifies selection and provides a	2		4	2
Selection and rationale	Identifies selection and provides a list of reasons for selection.	,		Selection and rationale	Identifies selection and provides a list of reasons for selection.	,		4	2
Physical Layout				Physical Layout					
	Picture of payload showing dimensions of structure and any				Picture of payload showing dimensions of structure and any				
Discouries	significant structure. Picture and	١,	Cilida accessiona CO la Mara Accessiona	Discontinu	significant structure. Picture and	١.			
Dimensions	dimensions of container. Shows location of electronic components, batteries, GPS	-	Slide number 23 is the template.	Dimensions	dimensions of container. Shows location of electronic	-			2
Pleasment of Major Components	components, batteries, GPS	١,		Pleasment of Major Companyate	Shows location of electronic components, batteries, GPS antenna, radio antenna, actuators.	١,			2
Placement of Major Components	antenna, radio antenna, actuators. Shows payload inside container with any parts that need stowing in	0		Placement of Major Components	Shows payload inside container with any parts that need stowing in	0		1	
Launch Configuration	with any parts that need stowing in	0		Launch Configuration	with any parts that need stowing in stowed position.	0			2
	Shows payload outside of	T.			Shows payload outside of container with all parts deployed.	Ť			
Deployed Configuration	container with all parts deployed. Description of flight operations	0		Deployed Configuration	with all parts deployed. Description of flight operations from	0		C	2
0	Description of flight operations from launch to landing and all the			0	Description of flight operations from launch to landing and all the steps				•
System Concept of Operations	steps in between. Shows or indicates overall	2		System Concept of Operations	Shows or indicates overall	2		4	2
	Shows or indicates overall dimensions of cansat and compares to envelope dimensions				Shows or indicates overall dimensions of cansat and compares to envelope dimensions				
Launch Vehicle Compatibility	provided in guide.	2		Launch Vehicle Compatibility	provided in guide.	2		4	2
Sensor Subsystem Design	Drief description of severe			Sensor Subsystem Design	Date description of courses				
Sensor Subsystem Overview Payload Air Pressure Sensor Trade and Selection	Brief description of sensors	2		Sensor Subsystem Overview Payload Air Pressure Sensor Trade and Selection	Brief description of sensors	2		4	2
	Show at least 2 different air pressure sensors for the container,				Show at least 2 different air pressure sensors for the container,				
	with specs for each or statement				with specs for each or statement				
Trade (2 or more sensors)	that none is used. Selection made and reasons	2		Trade (2 or more sensors)	that none is used.	2		4	2
	provided or statement none is				Selection made and reasons				
Selection (with criteria) Payload Air Temperature Trade & Selection	used.	2		Selection (with criteria) Payload Air Temperature Trade & Selection	provided or statement none is used	2		4	2
	Show at least 2 different sensors with specs for each				Show at least 2 different sensors with specs for each				
Trade (2 or more sensors)	Selection made and reasons	2		Trade (2 or more sensors)	Selection made and reasons	2		4	2
Selection (with criteria)	provided	2		Selection (with criteria)	provided	2		4	2
Payload Battery Voltage Sensor Trade & Selection	Show at least 2 different designs			Payload Battery Voltage Sensor Trade & Selection	Show at least 2 different designs				
Trade (2 or more sensors)	with specs for each	2		Trade (2 or more sensors)	with specs for each	2		4	2
Selection (with criteria)	Selection made and reasons provided	2		Selection (with criteria)	Selection made and reasons provided	2		4	2
Payload Tilt Sensor Trade & Selection	Show at least 2 different sensors			Payload Tilt Sensor Trade & Selection	Show at least 2 different sensors				
Trade (2 or more sensors)	with specs for each	2		Trade (2 or more sensors)	with specs for each	2		4	2
	Selection made and reasons				Selection made and reasons				
Selection (with criteria) Payload GPS Sensor Trade & Selection	provided	-		Selection (with criteria) Payload GPS Sensor Trade & Selection	provided	-		4	
	Show at least 2 different sensors				Show at least 2 different sensors				2
Trade (2 or more sensors)	with specs for each Selection made and reasons	+ -		Trade (2 or more sensors)	with specs for each Selection made and reasons	-		4	
Selection (with criteria)	provided	2		Selection (with criteria)	provided	2		4	2
Payload Camera Trade & Selection	Show at least 2 different sensors			Payload Camera Trade & Selection	Show at least 2 different sensors				
Trade (2 or more sensors)	with specs for each Selection made and reasons	2		Trade (2 or more sensors)	with specs for each Selection made and reasons	2		4	2
Selection (with criteria)	provided and reasons	2		Selection (with criteria)	provided and reasons	2		4	2
Descent Control Subsystem Design	Overview of selected descent			Descent Control Subsystem Design	Overview of selected descent				
	control configuration for container and payload.				control configuration for container and payload.				
Descent Control Subsystem Overview Container Descent Control Strategy Selection and Trade		2		Descent Control Subsystem Overview Container Descent Control Strategy Selection and Trade		2		4	2
	Show at least two different			and the second of the second s	Show at least two different				
Descent Control Strategy Trade (Pre payload deployment, 2 or more strategies)	Show at least two different strategies to control the descent of the container after deployment.	1	No visuals for the container stowed configuration	Descent Control Strategy Trade (Pre payload deployment, 2 or more strategies)	strategies to control the descent of the container after deployment	1	missing pics?	2	2
	Selection made and reasons		and the same and t		Selection made and reasons		- 1 .:	1	2
Selection (with criteria)	provided	-		Selection (with criteria) Payload Aerobraking Descent Control Strategy Selection and Trade	provided	-		1	
Payload Aerobraking Descent Control Strategy Selection and Trade	Show at least two different		Musuka net geleg to use sightees you	Trade	Show at least two different				
Aerobraking descent control and design, 2 or more designs.	strategies for aerobraking.	1	If you're not going to use pictures, you need more description	Aerobraking descent control and design, 2 or more designs.	strategies for aerobraking.	1		2	2
Selection (with criteria)	Selection made and reasons	1		Selection (with criteria)	Selection made and reasons	1			2
Type of stability control identified (passive or active)	Identify the type of stability control	2		Type of stability control identified (passive or active)	Identify the type of stability control	2		4	2
	Show/explain how stability is maintained. Keep the payload from				Show/explain how stability is maintained. Keep the payload from				_
Description of stability control, how is nadir direction maintained	swaying.	1		Description of stability control, how is nadir direction maintained	swaying.	1		2	2
Trade (2 or more strategies)	Show at least 2 methods Selection made and reasons	1	No discussion of how nadir direction is maintained	Trade (2 or more strategies)	Show at least 2 methods Selection made and reasons	1		2	
Selection (with criteria) Payload Parachute Descent Control Strategy Selection and Trade	provided	2		Selection (with criteria) Payload Parachute Descent Control Strategy Selection and Trade	provided	2		4	2
Payload Parachute Descent Control Strategy Selection and Trade	Description of parachute designs,			Payload Parachute Descent Control Strategy Selection and Trade	Description of parachute designs,				
Description of stability control, how is nadir direction maintained	materials.		2	Description of stability control, how is nadir direction maintained	materials.		2	4	2
Trade (2 or more strategies)	Show at least 2 designs Selection made and reasons	-	-	Trade (2 or more strategies)	Show at least 2 designs Selection made and reasons		<u>z</u>	4	2
Selection (with criteria)	provided		2	Selection (with criteria)	provided		2	4	2
Descent Rate Estimates				Descent Rate Estimates					

	Show how the descent rate in m/sec for the cansat with the				Show how the descent rate in m/sec for the cansat with the		
ontainer descent rate with payload	parachute.	0		Container descent rate with payload	parachute.	0	0
	Show how the descent rate in m/sec for the payload with the hear	4			Show how the descent rate in m/sec for the payload with the heat		
ayload Aerobraking descent rate	shield deployed	0		Payload Aerobraking descent rate	shield deployed	0	0
	Show how the descent rate in m/sec for the payload with the				Show how the descent rate in m/sec for the payload with the		
yload Parachule descent rate chanical Subsystem Design	parachute.	0		Payload Parachute descent rate Mechanical Subsystem Design	parachute.	0	0 2 4
chanical Subsystem Design				Mechanical Subsystem Design			
	Overview of selected mechanical configuration for container and				Overview of selected mechanical configuration for container and		
chanical Subsystem Overview	payload.	1		Mechanical Subsystem Overview	payload.	1	2 2 4
ntainer Mechanical Layout of Components Trade & Selection				Container Mechanical Layout of Components Trade & Selection			
	Should show major components and where they are located.				Should show major components and where they are located. Should		
rade (2 or more strategies)	Should not be a list of materials.	1		Trade (2 or more strategies)	not be a list of materials.	1	224
	Selection made and reasons				Selection made and reasons		
Selection (with criteria) ontainer Parachute Attachment Mechanism	provided			Selection (with criteria) Container Parachute Attachment Mechanism	provided	1	2 2 4
italier Faractitite Attacimient mechanism	Show design of container attachment mechanism. Should be			Container Faracritic Attachment mechanism	Show design of container attachment mechanism. Should be		
	attachment mechanism. Should be	4			attachment mechanism. Should be		
	a simple device where the parachute is attached. Should be				a simple device where the parachute is attached. Should be		
achment to container	passive.	1		Attachment to container	passive.	1	224
ease method	Explain how it works	1		Release method	Explain how it works	1	2 2 4
rload Mechanical Layout Trade & Selection	Should show two structure			Payload Mechanical Layout Trade & Selection			
icture of payload	designs.	0		Structure of payload	Should show two structure designs.	0	02 4
	Point out electrical subsystems,			Identify location of electrical components	Point out electrical subsystems, sensosrs, battery, etc.		
ntify location of electrical components	sensosrs, battery, etc. Point out mechanisms used to	0		Identify location of electrical components	Point out mechanisms used to		02 4
	Point out mechanisms used to release components or change				Point out mechanisms used to release components or change		
ntify location of mechanisms and major machanical components	mechanical configuration.	0		Identify location of mechanisms and major machanical components	mechanical configuration.	0	02 4
selection (with criteria)	Selection made and reasons provided	0	ļ.	Selection (with criteria)	Selection made and reasons provided	0	0 2 4
yload Aerobraking Pre Deployment Trade and Selection				Payload Aerobraking Pre Deployment Trade and Selection			
	Show at least 2 strategies used in the selection of how the heatshield				Show at least 2 strategies used in the selection of how the heatshield		
rade (2 or more strategies)	is stowed while in the container.	0		Trade (2 or more strategies)	is stowed while in the container.	0 No trade	0 2 4
	Selection made and reasons				Selection made and reasons		
election (with criteria)	provided	0		Selection (with criteria)	provided	0	0 2 4
yload Aerobraking Deployment Trade and Selection	Show at least 2 strategies used in			Payload Aerobraking Deployment Trade and Selection	Show at least 2 strategies used in		
	Show at least 2 strategies used in the selection of how the heatshield				Show at least 2 strategies used in the selection of how the heatshield		
ow mechanism concepts of how heat shield is deployed.	is deployed. Selection made and reasons	0		Show mechanism concepts of how heat shield is deployed.	is deployed. Selection made and reasons	0 No trade	0
election (with criteria)	provided and reasons	0		Selection (with criteria)	provided	0	0 2 4
				Payload Parachute Deployment Configuration Trade and			
yload Parachute Deployment Configuration Trade and Selection	Should show two ways to stow and			Selection	Should show two ways to stow and		
	release the parachute. Include				release the parachute. Include		
rade (2 or more strategies)	parachute attachment to payload.	0		Trade (2 or more strategies)	parachute attachment to payload.	0	0
Selection (with criteria)	Selection made and reasons provided			Selection (with criteria)	Selection made and reasons provided	_	0 2 4
yload Upright Operation	provided			Payload Upright Operation	provided	0	
	Should show two ways that the				Should show two ways that the		
rade (2 or more strategies)	payload is uprighted after landing. Selection made and reasons	0		Trade (2 or more strategies) Selection (with criteria)	payload is uprighted after landing. Selection made and reasons	0 template slide	0 2 4
Selection (with chiefla)	Explain how parts will be secured			Selection (with chieffa)	Explain how parts will be secured	<u> </u>	04
lectronics Structural Integrity	so nothing breaks during flight.	0		Electronics Structural Integrity	so nothing breaks during flight.	2	2 2 4
ass Budget	A complete list of all of the			Mass Budget	A considerable line of all of the		
	components and their mass in				A complete list of all of the components and their mass in		
lass of all components	lgrams	1		Mass of all components	lorams	1	224
	A complete list of all of the				etructural components and their		
lass of all structural elements	A complete list of all of the structural components and their mass in grams	1		Mass of all structural elements	A complete list of all of the structural components and their mass in grams	1	2 2 4
	A complete list of all of the	1		Mass of all structural elements	mass in grams Must document sources of and any	•	2 2 4
	A complete list of all of the structural components and their mass in grams Must document sources of and any uncertainties	1 0		Mass of all structural elements Sources or uncertainties	mass in grams Must document sources of and any uncertainties	1	2 <u>2</u> 4 0 <u>2</u> 4
ources or uncertainties	A complete list of all of the structural components and their mass in grams	1 0		Sources or uncertainties	mass in grams Must document sources of and any uncertainties Must document the total masses of components and structural	0	
ources or uncertainties	A complete list of all of the structural components and their mass in grams Must document sources of and any uncertainties Must document the total masses of components and structural elements	1 0			mass in grams Must document sources of and any uncertainties Must document the total masses of components and structural elements	1 0 incomplete	2
ources or uncertainties	A complete list of all of the structural components and their mass in grams Must document sources of and any uncertainties Must document the total masses of components and structural elements	1 0		Sources or uncertainties	mass in grams Must document sources of and any uncertainties Must document the total masses of components and structural elements Mass requirement. Total Mass =	0 incomplete	
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ources or uncertainties otal Mass targin (with methods for correction) DH Subsystem Design H Overview yload Processor and Memory Trade & Selection	A complete list of all of the structural components and their mass in grams Must document sources of and any uncertainties Must document the total masses or components and structural elements Mass requirement - Total Mass = Margin, Document the method(s) of correction. Overview of selected components	0 f 0		Sources or uncertainties Total Mass Margin (with methods for correction) CADH Subsystem Design CADH Overview Payload Processor and Memory Trade & Selection	mass in grams Must document sources of and any uncertainties Must document the total masses of components and structural Mass requirement - Total Mass = Margin. Document the method(s) of correction. Overview of selected components	1 0 incomplete	0 <u>2</u> 4 0 <u>2</u> 4 4 <u>2</u> 4
ources or uncertainties otal Mass largin (with methods for correction) DH Subsystem Design H Overview yload Processor and Memory Trade & Selection	A complete list of all of the structural components and their mass in grams Must document sources of and any uncertainties Must document the total masses of components and structural elements Mass requirement - Total Mass = Margin. Document the method(s) of correction.	0 f 0		Sources or uncertainties Total Mass Margin (with methods for correction) CADH Subsystem Design CADH Overview Payload Processor and Memory Trade & Selection	mass in grams Must document sources of and any uncertainties Must document the total masses of components and structural elements Mass requirement - Total Mass = Margin. Document the method(s) of correction.	1 0 incomplete	0 2 4
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ources or uncertainties btal Mass largin (with methods for correction) DH Subsystem Design H Voreview //oad Processor and Memory Trade & Selection rocesor selections (including processor speed) lemory selections (including memory storage regulements, if	A complete list of all of the structural components and their mass in grams Must document sources of and any uncertainties. Must document the total masses of components and structural elements. Mass requirement. Total Mass — Margin, Document the method(s) of correction. Overview of selected components include: boot time, processor speed. Should include the type of pin.	0 0 0 0 2 2 2 2 2		Sources or uncertainties Total Mass Margin (with methods for correction) CADH Subsystem Design CADH Overview Payload Processor and Memory Trade & Selection	mass in grams Must document sources of and any uncertainties Must document the total masses of components and structural elements Mass requirement - Total Mass - Margin. Document the method(s) of correction. Overview of selected components Include: boot time, processor speed	1 0 incomplete	0 <u>2</u> 4 0 <u>2</u> 4 4 <u>2</u> 4
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ources or uncertainties otal Mass largin (with methods for correction) OH Subsystem Design H Overview yload Processor and Memory Trade & Selection rocessor selections (including processor speed) lemony selections (including memory storage requirements, if lictable) sata interfaces (types and numbers)	A complete list of all of the structural components and their mass in grams. Must document sources of and any Must document sources of and any Must document the lotal masses or components and structural elements. Must document the lotal masses or components and structural elements. Must document Total Mass = Margin. Document the method(s) of correction. Overview of selected components include: both time, processor speed. Overview of selected components include: both time, processor speed. (CPIO, Analog, Digital, etc.), if it is of their type of pin (CPIO, Analog, Digital, etc.), if it is of their type of pin are available.	0 0 0 2 2 2 2 2 2		Sources or uncertainties Total Mass Margin (with methods for correction) G&DH Subsystem Design CDH Overview Payload Processor and Memory Trade & Selection Processor selections (including processor speed) Memory selections (including memory storage requirements, if applicable)	mass in grams Must document sources of and any uncertainties Must document the total masses of Must document the total masses of several seasons of the second seasons of the seasons of t	1	0 2 4 4 2 4 4 2 4
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ources or uncertainties blat Mass largin (with methods for correction) DH Subsystem Design H Overview flood Processor and Memory Trade & Selection rocessor selections (including processor speed) lemony selections (including processor speed) lemony selections (including memory storage requirements, if liciable) stata interfaces (types and numbers) trade (2 or more) election (with criteria)	A complete list of all of the structural components and their mass in grams. Must document sources of and any uncertainties. Must document sources of and any uncertainties. Must document the total masses of components and structural elements. As a structural elements are structural elements. Document the method(s) of correction. Overview of selected components. Include: boot time, processor speed. Should include the type of pin (CRPIO, Analog, Digital, etc.), if it is an input or output, and how many of that type of jin are available. At least two processor & memory configurations presented in the processor in the processor of the structural presented in the processor in th	0 0 0 2 2 2 2 2 2		Sources or uncertainties Total Mass Margin (with methods for correction) C&DH Subsystem Design CDH Overview Payload Processor and Memory Trade & Selection Processor selections (including processor speed) Memory selections (including memory storage requirements, if applicable) Data Interfaces (types and numbers) Trade (2 or more)	mass in grams Must document sources of and any uncertainties Must document the total masses of earth of the source	1	0 2 4 0 2 4 4 2 4 4 2 4 4 2 4
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ources or uncertainties Intel Mass argin (with methods for correction) DH Subsystem Design H Overview Indead Processor and Memory Trade & Selection rocessor selections (including processor speed) emory selections (including processor speed) emory selections (including processor speed) atal interfaces (types and numbers) atal interfaces (types and numbers) adde (2 or more) election (with criteria) indead Real-Time Clock tade (2 or more) election (with criteria) indead Antenna Trade & Selection rade (2 or more)	A complete list of all of the structural components and their mass in grams Must document sources of and any uncertainties. Must document sources of and any uncertainties. Must document sources of and any uncertainties. The source of the source of an any uncertainties. Margin Total Mass = Margin Document The method(s) of correction. Overview of selected components include: boot time, processor speed. Should include the type of pin (IGPIO, Analog, Digital, etc.), if it is an input or output, and how many of that type of jin are available. At least two processor & memory indicate which selection and why it was chosen functionally indicated which selection and why it was chosen indicate which selection and why it was chosen.			Sources or uncertainties Total Mass Margin (with methods for correction) CADH Subsystem Design CDH Overview Payload Processor and Memory Trade & Selection Processor selections (including processor speed) Memory selections (including memory storage requirements, if applicable) Data Interfaces (types and numbers) Trade (2 or more) Selection (with criteria) Payload Real-Time Clock Trade (2 or more) Selection (with criteria) Payload Antenna Trade & Selection Trade (2 or more)	mass in grams Must document sources of and any uncertainties Must document the total masses of Must document the total masses of elements and structural elements. Must occument the method(s) of correction. Overview of selected components Include: boot time, processor speed Should include the type of pin (GPIO, Analog, Digital, etc.), iff it is an input or output, and how many of that type of pin are available. At least two processor memory control to the control of the contr	1	0 2 4 0 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4
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	Team must show an example of data transmission matching data format from section 3.3 in Mission			Team must show an example of data transmission matching data format from section 3.3 in Mission			
	format from section 3.3 in Mission			format from section 3.3 in Mission			
Payload Telemetry Format	Guide	2	Payload Telemetry Format	Guide	2	_	44
Daylood Command Formata	Team must show list of commands and formats		Payland Command Formata	Team must show list of commands and formats			
Payload Command Formats Electrical Power Subsystem Design	and formats	2	Payload Command Formats Electrical Power Subsystem Design	and iornats	2		
Electrical Force Gabby Stellin Design	Overview of EPS, diagram and		Electrical Force Capayatem Design	Overview of EPS, diagram and			
EPS Overview	components	2	EPS Overview	components	2		424
	High-level schematic, including			High-level schematic, including			4 2 4
Payload Electrical Block Diagram	voltages and major components	2	Payload Electrical Block Diagram Payload Power Trade & Selection	voltages and major components	2		4 2 4
Payload Power Trade & Selection	No lithium-polymer: a lithium-		Payload Power Trade & Selection	No lithium-polymer: a lithium-			
	No lithium-polymer; a lithium- polymer selection shouldn't be			No lithium-polymer; a lithium- polymer selection shouldn't be			
Battery selection	counted as a valid selection	2	Battery selection	counted as a valid selection	2	_	44
Battery configuration (series/parallel/other configurations)	Ohamat Is and house have a st	0	Battery configuration (series/parallel/other configurations)		0	-	02 4
Trade (2 or more)	Show at least two types of	2	Trade (2 or more)	Show at least two types of batteries	2		4 2 4
Selection (with criteria)	batteries	2	Selection (with criteria)	onow at least two types of batteries	2	1	4 2 4
	All power consumption should be			All power consumption should be in		1	
Payload Power Budget	in watt hours (Wh) only	2	Payload Power Budget	watt hours (Wh) only	2		4 2 4
Flight Software Design	Observed discusses havele FOW		Flight Software Design	Observed allowers have FOW			
	Should discuss basic FSW architecture including a flowchart			Should discuss basic FSW architecture including a flowchart			
	architecture including a flowchart showing the software flow,			architecture including a flowchart showing the software flow,			
	programming languages.			programming languages.			
ESM Overview	development environments and a brief summary of the FSW tasks.		FSW Overview	development environments and a brief summary of the FSW tasks.			4 3 4
FSW Overview	Software state diagrams for		FSW Overview	Software state diagrams for		-	42 4
	payload defining the states and transition conditions of the flight			Software state diagrams for payload defining the states and transition conditions of the flight			
	transition conditions of the flight			transition conditions of the flight			
	software. Also include sampling of sensors with rates.			software. Also include sampling of sensors with rates.			
	communications data storage			communications data storage			
	mechanism activations, major decision points in the logic and			mechanism activations, major decision points in the logic and			
	decision points in the logic and			decision points in the logic and			
	power management.Should also include FSW recovery to correct			power management.Should also include FSW recovery to correct			
	state after processor reset during			state after processor reset during			
Payload FSW State Diagram	flight.	2	Payload FSW State Diagram	flight.	2	1	44
	Description on the simulation			Description on the simulation mode			4 2 4
Simulation Mode Software	mode implementation The software development plan		Simulation Mode Software	implementation The software development plan	4	-	44
	should include prototyping			should include prototyping software			
	should include prototyping, software subsystem development			should include prototyping, software subsystem development sequence,			
	I sequence, development team and			development team and test			
Software Development Plan Ground Control System Design	test methodology.	2	Software Development Plan Ground Control System Design	methodology.	2		4 2 4
Ground Control System Design	A simple context diagram showing		Ground Control System Design	A simple context diagram showing			
GCS Overview	major components	2	GCS Overview	major components	2		4 2 4
	Should have a diagram of the			Should have a diagram of the		1	
CCC Decise	ground station, including components and how they connect		CCC Design	ground station, including components and how they connect			4 3 4
GCS Design GCS Antenna Trade & Selection	components and now triey connect	2	GCS Design GCS Antenna Trade & Selection	components and now they connect	2		- 2 4
OCO AMEMIA MAGE & GENERALIN	_		Goo America Trade a descendir				
Trade (show at least 2)	Should include antenna natterns	2	Trade (show at least 2)	Should include antenna natterns	2		4 2 4
Trade (show at least 2) Discuss Antenna Mounting Design	Should include antenna patterns Handheld or table top	2	Trade (show at least 2) Discuss Antenna Mounting Design	Should include antenna patterns Handheld or table top	2		4 2 4
Discuss Antenna Mounting Design	Handheld or table top	2	Discuss Antenna Mounting Design	Handheld or table top	2		4 2 4
Trade (show at least 2) Discuss Antenna Mounting Design Selection	Handheld or table top Indicate selected design and reasons for selection.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Trade (show at least 2) Discuss Antenna Mounting Design Selection	Handheld or table top Indicate selected design and reasons for selection.	2 2 2		4 2 4 4 2 4
Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display	2 2 2	Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection.	2		4 <u>2</u> 4 4 <u>2</u> 4 4 <u>2</u> 4
Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software narkanes used real	2 2	Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software packages used real time	2 2 2		4 2 4 4 2 4 4 2 4
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Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software packages used, real time plotting software design, how the calibration command for the	2 2	Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software packages used, real time plotting software design, how the calibration command for the	2		4 2 4 4 2 4 4 2 4
Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software packages used, real time plotting software design, how the calibration command for the barometric sensor and rewinitch	2 2 2	Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection. Should include telementy display prototypes, commercial off the shelf software packages used, real time plotting software design, how the calibration command for the barmentic sensor, and rewinitch	2 2		4 2 4 4 2 4 4 2 4
Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software packages used, real time plotting software design, how the calibration command for the barometric sensor and rowipitch angles will be transmitted and the protocol of the protocol of the barometric sensor and rowipitch angles will be transmitted and the protocol of the protocol of the protocol of the protocol of the protocol of protocol of	2 2 2	Discuss Antenna Mounting Design	Hamtheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software peakages used, read time plotting software design, how the calibration command for health barometric sensor and rowipited barometric sensor and rowipited wrifer! Hemetry data reporting	2 2		4 2 4 4 2 4 4 2 4
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Discuss Antenna Mounting Design Selection GCS Software CanSat Integration and Test	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software packages used, real time plotting software design, how the calibration command for the barometric sensor and rowipitch angles will be transmitted and the protocol of the protocol of the barometric sensor and rowipitch angles will be transmitted and the protocol of the protocol of the protocol of the protocol of the protocol of protocol of	2 2 2 2	Discuss Antenna Mounting Design Selection GCS Software CanSat Integration and Test	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software packages used, real time plotting software design, how the prototypes of the software packages used barometric sensor and rowylitch angles will be transmitted and werfied, telemetry data recording and media presentation to judges, csv telemetry file creation for sort leading the creation for sort prototypes.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		4 2 4 4 2 4 4 2 4
Discuss Antenna Mounting Design Selection GCS Software	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the prototypes, commercial off the time potiting software design, how the calibration command for the barometric sensor and rowspitch angles will be transmitted and verified, telemetry data recording and media presentation to judges, under the prototype of judges.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Discuss Antenna Mounting Design	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial of the sheft prototypes, commercial of the sheft prototypes, commercial of the prototypes, commercial of the prototypes, commercial of the prototypes, commercial of the callifest selection of the barometric sensor and rowlylich angles will be transmitted and verified, telemetry data recording and media presentation to judges.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		4 2 4 4 2 4 4 2 4 4 2 4 4 2 4
Discuss Antenna Mounting Design Selection GCS Software CanSat Integration and Test CanSat It Overview	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software packages used, real time plotting software design, how the calibration command for the barrometric sensor and rowlptch wrefired, telemetry data recording and media presentation to judges, cay telemetry file creation for judges.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Discuss Antenna Mounting Design Selection GCS Software CanSat Integration and Test CanSat I&T Overview	Handheld or table top Indicate selected design and reasons for selection. Should include telemetry display prototypes, commercial off the shelf software packages used, real time plotting software design, how the prototypes of the software packages used barometric sensor and rowylitch angles will be transmitted and werfied, telemetry data recording and media presentation to judges, csv telemetry file creation for sort leading the creation for sort prototypes.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		4 2 4 4 2 4 4 2 4
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	Table or ANOTHER Gantt chart, which should include detail.			Table or ANOTHER Gantt chart, which should include detail.					
	including exams and school			including exams and school					
Gantt Chart or Table Summary Showing Full Schedule	vacations	2	Gantt Chart or Table Summary Showing Full Schedule	vacations	2		4	2	4
	Development activities should			Development activities should		1			
	include team or team members			include team or team members					
Major Development Activies with Assignments Shown	assigned to each task	2	Major Development Activies with Assignments Shown	assigned to each task	2	1 1	4	2	4
Conclusions		2	Conclusions		2		4	2	4
Quality			Quality						
Quality of Powerpoint Presentation	Average is 7.	3	Quality of Powerpoint Presentation	Average is 7.	3]	6	2	20
	Did the team answer the questions			Did the team answer the questions		1			
Handling of Questions	ask by the reviewer	2	Handling of Questions	ask by the reviewer	2		4	2	4
							330	226	468