

## Judging Criteria

	Topic	Basis of Judgement
Content	Vehicle Sizing	Discussed methodologies and assumptions used to derive aircraft size
	Configuration Selection	Discussed methodologies and assumptions used to develop aircraft configuration
	Stability & Control	Discussed drivers that influenced control surface sizing, servo motor sizing, and installation. ( <i>Should talk about static stability and dynamics of flight</i> )
	Weight Buildup	Discussed how the team manage weight and approach to reduce weight.
	Propulsion	Discussed approach and techniques used to down-select the engine and propeller.
	Performance Analyses	Discussed analysis and techniques used to achieve desired aircraft performance. ( <i>Should touch on min. weight, max thrust, stability, controllability, etc</i> )
	Stress Analysis	Explained how stress analysis impacted the overall air vehicle level design.
	Use of Materials	Discussed how material was selected. Where was it used? Why was it needed? ( <i>Availability, Fabrication, Assemble Issues</i> )
	Trade Studies	Did the team perform adequate trade studies and "what-if" analysis?
	Empirical Results	Empirical testing should be used, as appropriate, in support of aircraft design and performance estimates.
	Requirement Decomposition	Demonstrate knowledge of design constraints and mission requirements. Have solid understanding of the scoring criteria
	Project Planning	Discuss project management and planning (Engineering, Manufacutring, Design, Flight Test, and Cost)
Delivery		
	Style	Observe delivery style; how natural and comfortable was the presentation delivery
	Move	Observe deliver for proper eye contact, poster and Gestures. Was the movement too distracting?
Voice		
	Clear and Distinct	Speaker was clear and distinct. Easy to understand.
	Appropriate Rate and Pitch	Speaker use of rate and pitch throughout presentation. Too Fast/Slow? Use pause in appropriate places
	Volume	Speaker was audio and not over bearing
	Fluency	Speaker presented with good flow using appropriate sounds, words and phrases to convey main point
Organization		
	Topic Introduction	Get Attention, Gives needed informatin, make clear purpose
	Well-Structured Presentation	Presentation was organized at the appropriate level for a 10 minute presentation
	Logically Topic Transition	Presentation and speaker used good transition between topics
	Summary	Speaker provided good summary of the objectives, emphasizes main points, and create interest
Visual Aid		
	Clear	Visual Aids (charts, handouts, and models) were easy to see, read, and understand.
	Sufficient (Appropriate Level)	Use of visual aids to drive main point (animation, pictures, models)
	Relevant	Visual Aids are relevent to discussion and understanding of the objectives