

Each section must contain or answer all of the sub-elements under that section. Teams may decide to discuss items in greater detail in a given area, but still must provide all of the detail required such that this paper can stand alone.

The paper must be written such a person can understand the team's entire design without having seen previous year's papers and designs.

This outline is also to be used as the basis for the static judging presentation. The judges will be looking for all of the elements and sections to be covered during the presentation.

### **IARC Paper Outline**

<b>Sections</b>	<b>Points</b>
	0 to ...
<b>1) Abstract</b>	<b>5</b>
<b>2) Introduction</b>	<b>5</b>
a) Statement of the problem	
b) Conceptual solution to solve the problem	
b1) Figure of overall system architecture	
c) Yearly Milestones	
<b>3) Air Vehicle</b>	<b>15</b>
a) Propulsion and Lift System	
b) Guidance, Nav., and Control	
b1) Stability Augmentation System	
b2) Navigation	
b3) Figure of control system architecture	
c) Flight Termination System	

<b>4) Payload</b>	<b>15</b>
a) Sensor Suite	
a1) GNC Sensors	
a2) Mission Sensors	
a21) Target Identification	
a22) Threat Avoidance	
b) Communications	
c) Power Management System	
d) Sub-Vehicle (if any)	
<b>5) Operations</b>	<b>10</b>
a) Flight Preparations	
a1) Checklist(s)	
b) Man/Machine Interface	
<b>6) Risk Reduction</b>	<b>15</b>
a) Vehicle Status	
a1) Shock/Vibration Isolation	
a2) EMI/RFI Solutions	
b) Safety	
c) Modeling and Simulation	
d) Testing	
<b>7) Conclusion</b>	<b>5</b>
<b>8) References</b>	<b>5</b>
Note paragraph numbers if referencing former papers	
<b>9) Overall Format, Completeness, and Readability</b>	<b>25</b>
<b>TOTAL</b>	<b>100</b>

### Score Breakdown

