

Competition Score Sheet – Systems Engineering and Innovation

Systems Engineering Checklist (SE)

The team should present to you information on their development and design process. They should reference their PDR document, including the schedule, test plans and testing, system requirements, and any deviations they took from their PDR. If they don't provide you enough information to award them points, ask them about it! Complete the below checklist, and tally up the points in "(SE) Total".

Requirement	Addressed?	Points
Team discusses how well they followed their PDR schedule.	<input type="checkbox"/>	2
Team discusses test plans and provides test data.	<input type="checkbox"/>	2
Team discusses the requirements called out in the PDR.	<input type="checkbox"/>	1
Team discusses how they design their system to the reqs.	<input type="checkbox"/>	1
Team provides documentation on any deviations from PDR.	<input type="checkbox"/>	2
Team provides evidence of use of engineering notebooks.	<input type="checkbox"/>	1
Information is presented in a professional manner.	<input type="checkbox"/>	1

Innovation (IN)

If not addressed during their presentation, ask the following questions, as well as any other questions you have about their system, process, or presented material. Based on the answers to these questions, determine an innovation score based on the below rubric

- **What makes your system innovative?**
- **Did you use a kit or premade system as the basis of your design?**

If they answer yes to the above question:

- **What changes did you make to the "off the shelf" kit/system?**
- **What made you choose to use this particular kit/system? Was it the best fit for the mission, or was it what you had available?**

Points	0	2	4	6	8	10
Description	No attempt to improve on out-of-box design	System based on "Kit Bot" with minimal changes	Student designed, but lack of designing to requirements	Custom, student designed system with elements from multiple off-the-shelf systems	Custom student design with evidence of purposeful design with requirements in mind	Exceptionally unique, requirements-driven design

(SE) Total	(IN) Total

Include which Challenge (Sea, Air, or Land) in the Team name.

Team Name: _____

Judges Initials _____