

Project # _____ Engineering/Robotics Feedback Form – Senior & Intermediate Division

The purpose of this form is to provide one judge's assessment of the strengths and weaknesses of the presenter's work in order to improve future projects. It does not indicate how well the presenter performed with respect to other PRSEF participants.

Judging Criteria	Outstanding	Above expectations	At Expectations	Areas for Improvement	Points
Engineering Approach	<input type="checkbox"/> Problem scope is well-defined and serves a clear purpose <input type="checkbox"/> Proposed solution is novel <input type="checkbox"/> Project addresses all aspects of the problem <input type="checkbox"/> Can reason from findings to suggest further work	<input type="checkbox"/> Problem limited in scope and serves a purpose <input type="checkbox"/> Proposed solution represents a new approach to an old design <input type="checkbox"/> Project addresses most aspects of the problem <input type="checkbox"/> Can reason from findings, with help, to suggest alternative solutions	<input type="checkbox"/> Problem scope is clear but may be too limited or broad <input type="checkbox"/> Proposed solution is new to student <input type="checkbox"/> Project addresses only one aspect of the problem <input type="checkbox"/> Not able to suggest modifications to current plan	<input type="checkbox"/> Clarify and limit the problem scope <input type="checkbox"/> Propose a solution that has not been tried before <input type="checkbox"/> Revise the project to more clearly address the problem <input type="checkbox"/> Become familiar with limitations of the solution and how they relate to limits of the design	<u> </u> /35
Procedural Plan	<input type="checkbox"/> Design process appropriate & thorough <input type="checkbox"/> Design process well-supported in notebook <input type="checkbox"/> Construction feasible and cost effective	<input type="checkbox"/> Design process appropriate, expert advice would improve <input type="checkbox"/> Design process documented in notebook <input type="checkbox"/> Construction is feasible or cost-effective	<input type="checkbox"/> Design process appropriate but may be incomplete <input type="checkbox"/> Design notebook includes minimal data to support design <input type="checkbox"/> Construction possible but not cost effective	<input type="checkbox"/> Revise the design process to more clearly address design limitations <input type="checkbox"/> Prepare and present the design notebook <input type="checkbox"/> Revise the construction to be more appropriate and adequate	<u> </u> /15
Analytical approach	<input type="checkbox"/> Rationale for solution clear, appropriate, and well supported <input type="checkbox"/> Mathematical approach included, appropriate statistical analysis correctly executed and well understood	<input type="checkbox"/> Rationale for solution clear and appropriate <input type="checkbox"/> Mathematical approach is included, appropriate statistical analysis correctly executed	<input type="checkbox"/> Rationale for solution provided, but could be more clear and appropriate <input type="checkbox"/> Mathematical approach limited in scope, but is included	<input type="checkbox"/> Revise the rationale for the solution to be more clear and appropriate <input type="checkbox"/> Describe the mathematical approach	<u> </u> /10
Visual Presentation	<input type="checkbox"/> Poster is primarily graphs or tables, scientific question, conclusions, & brief descriptions of methods <input type="checkbox"/> Data presentation is clear and concise. <input type="checkbox"/> Material is well organized and reader needs no assistance. <input type="checkbox"/> Documentation reflects comprehensive understanding of design limitations	<input type="checkbox"/> Text and visually displayed information balanced on poster <input type="checkbox"/> Proper use of data presentation (graphs/tables) <input type="checkbox"/> Material is organized and reader needs minimal assistance. <input type="checkbox"/> Documentation reflects understanding of design limitations	<input type="checkbox"/> Text outweighs visually displayed information <input type="checkbox"/> Some use of graphs/tables for data presentation <input type="checkbox"/> Material is organized so the reader can navigate through it with help <input type="checkbox"/> Documentation reflects incomplete understanding of design limitations	<input type="checkbox"/> Revise the poster to balance text and visually displayed information <input type="checkbox"/> Use graphs and tables for presenting data <input type="checkbox"/> Organize the material to assist the reader <input type="checkbox"/> Provide documentation	<u> </u> /20
Oral Presentation	<input type="checkbox"/> Well prepared, reflects a deep understanding of underlying engineering principles and relevance to a broad audience <input type="checkbox"/> Responds readily to questions <input type="checkbox"/> Understands how the project can be useful and the difficulties that might be encountered in construction	<input type="checkbox"/> Well prepared, reflects a deep understanding of the question <input type="checkbox"/> Familiarity with engineering principles <input type="checkbox"/> Understands how the project can be useful but may not appreciate the difficulty of construction	<input type="checkbox"/> Prepared, reflects an understanding of the question. <input type="checkbox"/> Limited familiarity with engineering principles <input type="checkbox"/> Believes the project could be useful	<input type="checkbox"/> Become more familiar with the question and provide a more complete presentation <input type="checkbox"/> Become more familiar with the engineering principles and the rationale for the selected design <input type="checkbox"/> Provide an example of an application	<u> </u> /20

Judge's Constructive Comment/Suggestion: