

Project Title:

Student Name (optional)

I. SPECIFIC PROJECT OUTCOMES AS ASSESSED BY PROJECT STUDENTS

Here you are now asked to make TWO assessments. First, please indicate the *extent* to which each of the following possible outcomes was an aspect (or could have been an aspect) of the project *due to the nature of the topic*, on a scale of:

- 0 Not at all
- 1 To a minimal extent
- 2 Somewhat
- 3 To a significant extent
- 4 To a very large extent

Then, for any outcome that was an aspect of the project to a significant (3) or very large (4) extent, assess the *level of accomplishment* that you demonstrated in this area, on a scale of:

- 0 Did not complete the work for this criterion, or demonstrated severe misconceptions about the important concepts; made many critical errors
- 1 Displayed an incomplete understanding of the important concepts and had some not able misconceptions; made a number of errors when performing important strategies or skills but completed a rough approximation of them
- 2 Applied strategy or concepts without significant errors
- 3 Demonstrated a complete and accurate understanding of the important concepts
- 4 Application of strategy or concept: displayed originality or excellence that exceeded expectations

Aspect	Extent	Level
1. Ability to apply mathematics, science and engineering		
2. Ability to apply mathematics specifically		
3. Ability to design and conduct experiments		
4. Ability to analyze and interpret the resulting data		
5. Identify, Formulate, and Solve Engineering Problems		
6. Ability to design a system, component, or process to meet design criteria		
7. Ability to use modern engineering tools for engineering design and analysis		
8. Ability to communicate effectively verbally		
9. Ability to communicate effectively in writing		
10. Incorporate Economic Considerations		
11. Incorporate Safety Considerations		
12. Incorporate Reliability Considerations		
13. Incorporate Aesthetic Considerations		
14. Perform Analysis		
15. Perform Synthesis		
16. Use and Develop Creativity		
17. Ability to function within a multidisciplinary team		
18. Understand Professional and Ethical Responsibility		
19. Understand Impact of Work in Global, Societal Contexts		
20. An appreciation for and the skills to accomplish life-long learning		
21. Demonstrate Knowledge of Contemporary Issues		
22. Ability to use resource materials		

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II. GROWTH IN STUDENT ABILITIES AS ASSESSED BY PROJECT STUDENTS

It is possible that the final project results do not always indicate the growth of a student's skills and abilities during the course of the project. (For example, even if the writing in the final report is not excellent, perhaps at the start of the project it was horrendous.) Please indicate your assessment of your growth in the following areas using a scale:

- na Not applicable (not a part of the project at all)
- 0 Student did not complete the work required for this criteria
- 1 no change
- 2 Marginal improvement
- 3 Definite improvement
- 4 No improvement noticed because the student already had excellent skills

Aspect	Improvement
1. Analytical abilities	
2. Experimental skills	
3. Computational skills	
4. Design abilities	
5. Written communication skills	
6. Oral communication skills	
7. Teamwork skills	
8. Professionalism	
9. Independence (ability to learn on their own)	

III. COMMENTS

Please make any comments you wish to make about the strengths or weaknesses of this project here: