

Florida International University  
Department of Mechanical and Materials Engineering

**SENIOR DESIGN REPORT EVALUATION FORM**

Project 1 \_\_\_\_\_  
 Project 2 \_\_\_\_\_  
 Project 3 \_\_\_\_\_  
 Project 4 \_\_\_\_\_

Date: \_\_\_\_\_ Note: Up to **four** projects can be evaluated in this form. Please indicate accordingly.

Category (Score Definition – Taxonomy is given on the back: Expert=5, Proficient= 4, Apprentice=3, Novice =2, Non-responsive=1)	Score			
	Project 1	Project 2	Project 3	Project 4
<b>A. Intangibles</b>				
1. Professional quality of work; consideration of the impact on society in a global and contemporary context				
2. Effort and enthusiasm for project; adherence to the ethical conduct; exhibiting an understanding of life-long learning				
3. Quality of teamwork				
<b>B. Written Report</b>				
<b>I. Style</b>				
1. Organization, structure, language (cohesiveness, fluidity, terminology, clarity) and written communication skills				
2. Use of visuals: Graphs/charts				
3. Spelling and grammar				
<b>II. Content</b>				
1. Recognition of need / opportunity				
2. Problem formulation a. Project objectives b. Design specifications c. Constraints and other considerations				
3. Solution formulation: Conceptualization and creativity				
4. Feasibility assessment (proposed solution)				
5. Project management: Organization/work breakdown				
6. Engineering analysis and decision-making				
7. Detailed design and use of engineering tools				
8. Construction				
9. Testing (designing and conducting experiments)				
10. Evaluation (analysis and evaluation of experimental data)				
11. Cost analysis				
12. Maintenance				
13. Environmental impact				
14. Risk assessment				
15. Appendix material				
<b>Comments:</b>   				

Evaluated by: \_\_\_\_\_ (Please circle one: student/faculty/industrial advisor/other)  
 (Optional)

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Project 5 \_\_\_\_\_  
 Project 6 \_\_\_\_\_  
 Project 7 \_\_\_\_\_  
 Project 8 \_\_\_\_\_

Date: \_\_\_\_\_ Note: Up to **four** projects can be evaluated in this form. Please indicate accordingly.

Category (Score Definition – Taxonomy is given on the back: Expert=5, Proficient= 4, Apprentice=3, Novice =2, Non-responsive=1)	Score			
	Project 5	Project 6	Project 7	Project 8
<b>A. Intangibles</b>				
1. Professional quality of work; consideration of the impact on society in a global and contemporary context				
2. Effort and enthusiasm for project; adherence to the ethical conduct; exhibiting an understanding of life-long learning				
3. Quality of teamwork				
<b>B. Written Report</b>				
<b>I. Style</b>				
1. Organization, structure, language (cohesiveness, fluidity, terminology, clarity) and written communication skills				
2. Use of visuals: Graphs/charts				
3. Spelling and grammar				
<b>II. Content</b>				
1. Recognition of need / opportunity				
2. Problem formulation a. Project objectives b. Design specifications c. Constraints and other considerations				
3. Solution formulation: Conceptualization and creativity				
4. Feasibility assessment (proposed solution)				
5. Project management: Organization/work breakdown				
6. Engineering analysis and decision-making				
7. Detailed design and use of engineering tools				
8. Construction				
9. Testing (designing and conducting experiments)				
10. Evaluation (analysis and evaluation of experimental data)				
11. Cost analysis				
12. Maintenance				
13. Environmental impact				
14. Risk assessment				
15. Appendix material				
<b>Comments:</b>   				

Evaluated by: \_\_\_\_\_ (Please circle one: student/faculty/industrial advisor/other)  
 (Optional)

## Taxonomy for ME design project evaluation

Scale	Performance	Description
5	Expert	Displays creative application of knowledge to fulfill requirements; sufficiently defends and interprets required information
4	Proficient	Adequately applies knowledge of, and analyzes, required information; makes inferences based on supporting evidence
3	Apprentice	Clearly displays understanding through explanations and examples; begins to apply knowledge of this requirement by determining best solutions
2	Novice	Displays knowledge and basic understanding of requirement; identifies and superficially describes required information
1	Non-responsive	Does not appropriately respond to requirement or requested information; no knowledge or understanding indicated