# Technical Report Rubric

Use a Technical Report to document the results of an application of the Engineering Process

* Define the problem
* Describe the solution
* Document the implementation of the solution
* Evaluate the success of the solution

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|  | **Purpose and Background** | **Design of the Solution** | **Implementation of the Solution** | Evaluation of the Solution |
| **4** | * Purpose of the project is explained and developed relative to significant social, historical, or personal issues
* Historical background of the concept and it’s implications are discussed
* Develops a particularly unique interpretation of the problem
 | * Past, Present, and Future of the Design is explained and developed
* Personal insight and explanation of Design Method
 | * Significant progress is made on the project
* Design decisions are connected to the implementation
* Evidence of appropriate and successful modifications or alterations to Design
 | * Consequences of results are connected to broad topics or issues
* Analyzes strengths and weaknesses of solution
* Opportunities for further research and development suggested by the project are described
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| **3** | * Appropriately formatted title page with descriptive title and abstract
* Clearly established social need for the problem to be solved
* Criteria For Success is clearly stated
 | * Explanation of underlying scientific laws, concepts, and calculations, of the Design
* Clearly defines the Design of the solution
* Includes appropriate graphical descriptions of the design
* Identifies choices made in establishing Design
* Complete Materials list
 | * Moderate progress is made on the project
* Explanation of process of implementation of Design
* Includes appropriate graphical descriptions and documentation of the implementation
* Addresses modifications made in the Design
 | * Establishes a criteria for the success of the project
* Evaluates performance based on the criteria for success
* Evidence of success or failure is communicated (may included table, graph, or observations)
* Outside sources are properly documented using MLA style
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| **2** | * Title and abstract do not effectively convey the contents of the report
* Purpose of the experiment is unclear or mundane
* Criteria is too simple or complex
 | * Unclear explanation of the Design
* Theoretical background is faulty or otherwise inaccurate
* No evidence of choices or decisions made in the Design
 | * Narrative version of events
* Explanation of modifications are unclear or mundane
 | * Product performance is not evaluated based on criteria
* Evidence of success or failure is not clearly stated
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| **1** | * Inappropriate title
* No Abstract
* No Problem Statement
* No criteria for success
 | * No explanation of Theoretical background
* No Design is included
* Design materials are not identified
 | * No explanation of process of implementation
* No evidence of modification
 | * No statement of performance
* Improperly documented sources
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