

Poster includes:

- Abstract
- Introduction
- Materials
- Results
- Analysis
- Conclusion and recommendations
- Literature cited
- Acknowledgement
- General layout

Abstract

- Brief description of the entire work that includes (entire project from grand challenge to chosen solution, purpose of the study, design requirements and prototype, testing ,results and conclusion)
- Understandable without reading the entire poster writing is professional organized and well developed
- Generates excitement and desire to read more about the topic

Introduction

- Identifies the problem (from grand challenge) and summarizes prior solutions (attempts, strengths and weaknesses) general wide perspective
- Summarizes how the team 's solution was chosen and how it addresses design requirements (you have to mention the design requirements) THAT WILL BE TESTED FOR THE TEAM 'S SOLUTION ,focus narrow perspective
- Project 's idea is supported by scientific laws and theories and demonstrates applied learning transfer

Materials and method

- Materials lists and /or illustrations, are summarized table with images notion
- Description of how the prototype is constructed
- The methods are clear enough (quantities and descriptions) to be explained to another professional
- Summary of the all test planes for the prototype a summery for each tests conducted for each design requirement

Results

- All types of results are presented whether positive or negative those results must be in your portfolio as a supporting documentation
- Date is very clearly presented and organized in tables' graphs and / or other visuals. they should be easy to be read and contains the error +/- values

Analysis

- Ties results to the original question being addressed and to the grand challenge
- It must show how your prototype testing meets the designed requirements
- There should be graphs demonstrations , and images associated

- Explanation is supported by scientific laws and theories and provides evidence of learning transfer
- It must be CLEAR organized . it explains the main points or characteristics related to the results

Conclusions

- Conclusions Part of very similar to analysis part
- It is considered as rephrasing the analysis part but you must show the connection between results and analysis with the main objective of the project and how it is useful to solve the problem
- No figures or pictures should be in this part

Recommendation

- Projects must be discussed in details (real design ,real location, real calculations , real usage, and real implementation with modern technology future modifications that can be done with the prototype to develop its performance)
- Recommendation are practical and directed towards a future research , engineering and application in order to have a better solution

Literature cited

- At least 5 citations in APA style. Peer review publications
- You must know what information or benefit you gained from each citation (what was useful from each citation)

General layout

- Illustration, tables , figures , photographs or diagrams have unique identification numbers and a key to identify symbols . Text includes references to them
- Include grade level , semester , and academic year
(Grade1 , Semester 1 , 2016/2017)