TEKNOFEST

**AEROSPACE AND TECHNOLOGY FESTIVAL**

 **ENVIRONMENT AND ENERGY TECHNOLOGIES COMPETITION**

 **PROJECT DETAIL REPORT**

**Project Name:**

**Category:**

**Team Level: (**Primary School-Secondary School/High School / University-Graduated)

**Team Name:**

**Team ID:**

**Application ID:**

## Ingredients

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## Project Summary (Project Description)

The project idea should be briefly summarized, if any, a visual should be added.

In the summary, the titles of the document content and project content (design, software, assembly) should be mentioned in **detail**.

## Defining the Problem Situation

The problem situation that makes your project necessary and the relevant issues that need to be solved should be stated.

Existing solutions should be analyzed and why these solutions are insufficient and what kind of improvements are needed should be explained in detail in this section.

The problem addressed by the project can be subdivided if it consists of complex and related subsystems.

The text should be written in clear and simple language.

The problem addressed by the project can be supported by visuals and/or a simple presentation with iconic displays.

## Solution

A solution proposal or suggestions for the problem should be stated.

The social benefit of the project idea should be explained by establishing a relationship with the problem explained in Chapter 2.

How the project will solve the problem should be clearly defined.

Visuals of the solution (prototype photograph, 3D technical drawings, etc.) and information about the design should also be included in this section.

Sub-components related to your prototype should be explained in **detail**.

A solution algorithm can be prepared so that the project and the solution path are easy and clearly understandable.

## Method

The method used in implementing the proposed solution should be explained clearly and in detail. It should be stated on which scientific principles and technological applications your method is based.

Especially if there is a prototype, the results of the experiments should be clearly stated.

The results should be analyzed and interpreted.

This part should be explained with a visual (2D, 3D) and/or prototype.

## Innovative Aspect

By analyzing similar products, information should be given about the innovative aspect of the project, and the features that distinguish the project from similar products in the market should be stated.

Specific aspects of the project should be specified. In addition, information should be given about the hardware and software parts of the original product designed (if any).

If there is an innovative aspect in the study, codes and design, it must be specified. Teams should clearly and clearly state in detail how they prepared their own work in this field, and in what ways they differ from similar studies.

## Applicability

Information should be given about how the project idea will be implemented and whether the project can be converted into a commercial product under the current conditions.

## Estimated Cost and Project Scheduling

Information should be given about the feasibility of the project with the least cost and its estimated budget. (The Project Budget should be prepared on the basis of the cost information that will arise in the event of the realization of the project.)

In this section, a time planning including the design, production and testing processes of the product and a list of materials to be used should be prepared.

Depending on the project plan, financial analysis should be carried out and it should be written which expenditures will be made in which period.

If there are similar projects in the market, cost comparison should be made with other projects in the market.

The project calendar can be displayed on a time bar. However, care should be taken not to be too complex.

## Target Group of the Project Idea (Users)

It should be stated here by whom the project will be used and for whom it will benefit.

Brief information should be given about who is experiencing the problem.

## Risks

Problems that may arise during the implementation of the project should be identified.

The measures and solution proposals (Plan B) for the problems that may arise during the implementation of the project should be defined.

In time planning, work packages, job descriptions and processes should be explained in detail.

Risk analyzes should be made in relation to timing and budget planning.

In case of realization of the project, the risk analysis of the project should be made and the existing risks (adverse risks) should be stated.

## References

The report should include the references section.

In the resources heading, detailed information should be given about all the resources you use to make your project. (Website address, Book Name, Page Number, etc.)

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| **NOTE ON REPORT DRAFTS:** **(This page will not be included in the reports.)** |
| * **The first 9 items above will be explained on a maximum of 10 (ten) pages.**
* **- Each report will have a maximum of 13 pages including Cover, Ingrediends and Bibliography.**
* **All reports must be written in accordance with academic reporting standards.**
* **- Each report should contain 3 separate pages for the "Cover, Ingrediends and Bibliography" headings.**
* **- Font:** Times New Roman**, Font Size:** 12**, Line Spacing:** 1.15**, Justified on both sides, Page margins should be** top-bottom-right-left 2.5**.**
* **- The sentences in the report should not be the same and repetitive.**
* **- There is no promotional video at this stage.**
* **- Our teams that have benefited from the reports of the past years on our website have to include cited phrase after the sentence cited.**
* **CITED FORMAT:** "Cited Phrase/s (Year, Competition Name, Category, Team Name) **EXAMPLE QUOTE:** "Failure to determine the location of the earthquake victim in the wreckage is the most important problem that slows down the debris removal and search for the earthquake victim." (2020, Technology For Humanity, Disaster Management, X Team)

**- References in the bibliography can be specified as follows.** **Digital Source:** Authors' Surnames, Initials, Title of Article, Date of Article, Date of Access, Address of Access. **Printed Source:** Authors' Surnames, Initials. (Print Date) Title of Article, (If Available) Name of Journal Published, (If Available) Number of Journal, Page Number. |