**TEKNOFEST**

**AEROSPACE AND TECHNOLOGY FESTIVAL**

**DIGITAL TECHNOLOGIES COMPETITION IN INDUSTY**

**PROJECT DETAIL REPORT TEMPLATE**

**TEAM NAME**

**……………………………….**

**PROJECT ADI**

**………………………………**

**APPLICATION ID**

**………………………………**

**Ingredients**

{In this section, the titles (along with the sub-titles) presented in the report should be presented by specifying the page numbers.}

1. **REPORT SUMMARY**

{ In this section, brief information about the activities carried out within the scope of the project is presented.}

1. **TEAM CHART**
   1. **Team Members**

{In this section, information is given about the team members and the consultant, if any. (Do not include your name, surname, school and class information. Write only the department at the unıversıty or school.)}

* 1. **Organization Chart and Task Distribution**

{In this section, information about the distribution of tasks and team organization is given.}

1. **PROJECT CURRENT STATUS ASSESSMENT**

{In this section, the evaluation of the Preliminary Design Report is made. If any, the changes made after the preliminary design and why the changes were made are explained. In the preliminary design, a comparison is made between the planned budget and the final budget.}

1. **VEHICLE DESIGN**
   1. **System Design**

{In this section, the block diagram containing the final design of the vehicle is given in detail.}

* 1. **Mechanical Design of the Vehicle**
     1. **Mechanical Design Process**

{In this section, the mechanical design processes of the vehicle are explained step by step. The visuals (technical drawing, prototype photos, etc.) of the designs made until the final design of the vehicle are included. Explains why the final design was chosen. Details of the final design are given. Technical drawing and post-production photos of the final design of the vehicle are included.}

* + 1. **Materials**

{It explains the materials used in the production of the vehicle (engines, the vehicle's skeleton, etc.), the properties of the materials and why they were chosen. Subcomponents purchased and/or developed/designed are specified}

* + 1. **Production methods**

{It explains the methods used during the production of the vehicle and why these methods were chosen.}

* + 1. **Physical Properties**

{Features of the vehicle such as dimensions and weight are included.}

* 1. **Electronic Design, Algorithm and Software Design**
     1. **Electronic Design Process**

{In this section, the electronic design processes of the vehicle are explained. Explains why the final design was chosen. Images of the designs (Block diagram, technical drawing, prototype photos, etc.) made until the final design of the vehicle are included. Information is given about the materials used (Sensors, cameras, cables, motherboard, motor drivers, power boards, etc.) and why it was chosen or how it was designed. The properties of the materials and why they were chosen are explained.}

* + 1. **Algoritma Tasarım Süreci**

**{**Bu kısımda aracın kontrol/navigasyon/güdüm algoritma süreçleri anlatılır. Final tasarımın neden seçildiği açıklanır. Final tasarıma yönelik algoritma akış diyagramları verilir.}

* + 1. **Yazılım Tasarım Süreci**

**{**Bu kısımda aracın kontrol/navigasyon/güdüm algoritmalarının yazılım süreçleri anlatılır. Algoritmaların hangi programlama dillerinde programlanacağı ve bunların seçilme nedenleri belirtilir.}

* 1. **Dış Arayüzler**

{Aracın dış arayüzleri, bu arayüzlerde kullanılan alt bileşenler ve mesaj arayüzleri anlatılır. Aracın kontrolünde kullanılan arayüzler, görüntü ve veri aktarımı gibi yerlerde kullanılan yazılımlar ve seçilen yazılım dilleri hakkında bilgi verilir.}

1. **SAFETY**

{In this section, the precautions and solution methods taken to meet the security needs specified in the competition specifications are explained. The materials used for safety precautions are indicated.}

1. **TEST**

{In this section, information is given about the test scenarios applied to the vehicle (if applicable) and their results. The results of the tests are compared with how compatible the design is. Teams that could not test can provide information about future tests here. You can specify your test equipment and planned processes here.}

1. **EXPERIENCE**

{In this section, information is given about the accidents, mistakes made during the design, production and testing phases of the vehicle, how they were overcome, and the experiences gained.}

1. **TIME, BUDGET AND RISK PLANNING**

{In this part, a time planning, final budget planning and risk planning are made, including the critical design, production and testing processes of the vehicle.}

1. **AUTHENTICITY**

{This section should describe the unique aspects of the project/vehicle.}

1. **NATIONALITY**

{In this section, the domestic sides of the project/vehicle should be explained.}

1. **REFERENCES**

{This section should include the sources used in the report.}

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| **NOTE ON REPORT DRAFTS:** |
| **- All reports must be written in accordance with academic reporting standards.**  **- Information about the contents of the reports is stated above.**  **- All reports should include "Table of Contents" and "Bibliography".**  **-Each report should contain a cover page.**  **- Reports pages should be numbered consecutively.**  **-Font: Times New Roman, Font: 12, Line Spacing: Single**  **-**  **In their report, our teams that have benefited from the previous year's reports on our website should indicate on the relevant page that they cite. You must state the explanation after the quoted sentence. QUOTE FORMAT: "Cited Sentence/s" (Year, Competition Name, Category, Team Name) EXAMPLE CIRCUMSTANCE: "The most important problem that slows down the debris removal and earthquake-damage search efforts is that the location of the earthquake victim cannot be determined in the wreckage." (2020, Technology Contest for the Benefit of Humanity, Disaster Management, Team X)** |