

DESIGN DOCUMENT

MAXIMUM OF 20 Pages document (including appendices)

Verdana font, size 11

Use legend for your figures and tables, see examples at the end!

Cite references (for a website: link and date of your reading. If possible, add the author and the publication date) To cite a reference in the text use number related to your reference section

1. Introduction

*In this section you should answer to these questions:
Who is the team/basic information?
What does the team intend to do?
Why do you choose this subject (secondary mission)?*

2. Project description

2.1 Mission overview

Describe with more detail the goal of your missions (primary and secondary) and briefly list the equipment used.

2.2 Mechanical design

*Describe the mechanical parts: parachute, chassis, ...
(3D views, calculations, ...)*

2.3 Electronic design

Describe the electronic components, justify your choice, use electronic schema to show connection between the different parts, ...

2.4 Ground station design

Describe your ground station: computer, antenna, data storage, ...

2.5 Software design

Describe our software (do not copy your code here!). Use schematic, diagram, graph, ... to show the process (condition, loop, computation, ...)

2.6 Recovery system

The recovery system is really really important, without you could never recover your CanSat... (So Sad!) Explain your recovery system.

2.7 Testing

Do not forget to test all the previous part! (And check the requirements) Explain how you are going to test and give results if it is done. Explain also your failures and your improvements.

3. Requirements

Check the 16 requirements, be aware that we will verify them especially (1, 2, 3, 7, 10, 12, 13 and 16)

4. Overall progress

4.1 Human resources

List your team members, present them, explain the work repartition

4.2 Planning

Create a planning for your project (for example you can use a Gantt diagram), explain planning adaptations (why, how, ...) and keep track of your work.

For each part you should use a statue DONE, IN PROGRESS, DELAYED or a percentage (0% NOTHING to 100% DONE)

4.3 Budget

List the electronical and mechanical parts of your system. For each part, indicate where you bought it, when you bought it and the price. (Sponsoring: indicate a real price if someone gives you some stuff)

*Note : It could be interesting to study the total price (realization...) + bilan énergétique concienne del'impact sur l'env)
For 3D print part, you should compute the total price: material and electricity. Use the mass of the part, the material and the price of the material per kilo to compute a price. Use the printing time, the power consumption of the printer and the price of electricity (euro/kWh) to compute a price. (An estimation of the power consumption could be found on internet; it is related the printer and to the material used. Do not hesitate to ask for any question related to this point.)*

5. Scientific results

Of course, this part will come after the launching. Explain your results using graphics, tables, ...

6. Discussion

Give your opinion about your project, results, future improvements, ...

7. Conclusion

Create a half page to write a conclusion (Present your initial goal, your realization and your results)

References

Bibliographic references

Appendix

If you want to add files (keep in mind the max 20 pages)