

Template for Internship project proposal

Template for Ph D research proposal *

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Our Ref. : propos1.tex

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Executive summary

*This document is a \LaTeX template for making a proposal for an internship-project. It follows the standard style and layout of technical documents made at Algologic *algotlogic*. Feel free to use this document and hack it, to suit your project. The paper [1] will help you understand the principles of hacking for learning. You can also ask Dr. Partha (drpartha@gmail.com), for a companion file **prefered.tex** which will give you plenty of ideas and tips for using \LaTeX . Notice that this file uses many “packages”. You can download all these packages from the CTAN site. Or, you can ask Dr. Partha, to give you a copy of any of these packages.*

The summary of the document comes here. First, state what this document is about, what is the purpose of this document. Do’nt bother about the project subject now. Then, in the next paragraph, explain what the project is about. Then, generate and insert the Table of Contents. \LaTeX can generate the TOC automatically for you. The TOC will get automatically updated whenever you run \LaTeX again on this document.

This document is itself structured like the project proposal you will make.

*You can download the latest version of this document, from <http://drpartha.org.in/publications/propos1.pdf>. You can get the \LaTeX version of this document from Dr. Partha.

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1 Preamble

Use this part, to give a few lines of introduction and the background. Be brief.

1.1 Important Note for Ph D aspirants

You can use this template document for submitting a proposal to Dr. Partha. However, if your parent institution has any predefined format or template, you can use that instead. In any case, you will have to prepare your proposal using L^AT_EX only, when you approach Dr. Partha.

1.2 Internship projects

Give an overview of your project here. Explain why you are planning to do what you plan to do. Explain the main reasons and motivation. Cite a few literature references on which your work will be based. Be brief. Avoid details. You can give specific details later, in the appropriate sections.

Every important project needs careful planning and design. When you undertake a long voyage, you plan your itinerary, and make a map of where

you want to go and which way you wish to travel. When you want to build a house, you make a detailed plan and related drawings. An internship project also needs a good plan. This document will help you create one.

This document is only a proposal, to guide you in executing your project. It is not a contract or a rigid commitment. You are making this proposal in an optimistic sense, using “today’s wisdom”. So, do not bother if any genuine unpredictable force you to deviate. This proposal is to help you minimise such deviations and prevent you from going astray. Moreover, your supervisors must know what you are trying or planning to do. Try to be honest, and try to stick as closely as possible, to this proposal, when you actually do your project.

Your proposal should contain the details explained in the next few subsections.

YOUR PROPOSAL STARTS HERE. should also not be a routine, run-of-the-mill story.

REMEMBER TO BE BRIEF.

2 The proposal

2.1 Title of the project

A tentative title which reflects the work you are going to do. You may also have to create a special title page, according to the format prescribed by your host institution.

2.2 Prognostic synopsis

Give a brief description of the area of work (not the specific problem). Explain the background etc.

Then, describe briefly the exact problem you are going to tackle. You must give the motivation for taking up this problem. You must also explain the current state of the art. The problem you take up must have an element of innovation it. It need not be a Ph D level problem, but it

2.3 Expected deliverables

Your first, and most important deliverable will be the project report. If you are likely to develop any programs, or make any prototypes, list them out clearly.

2.4 Tentative Table of Contents of the Project report

This is a very speculative section. do not worry about likely changes. Mention, what you foresee now as the likely TOC of your project report.

Disclaimers (Optional): You can add appropriately worded disclaimers, in case you foresee any bottlenecks or hazards. Be clear, but do not be too pessimistic or negative.

2.5 Tools to be used

In this part, explain and justify the principal tools (or methods) you propose to use.

Why L^AT_EX ? L^AT_EX is the choice of many institutions worldwide, when it comes to printing articles, papers, reports, books, theses, dissertations etc. of high visual appeal and quality. There are many reasons for this. Here are just a few :

1. It frees the user from having to bother about the finer details of high-quality typesetting systems. The user just creates the document with the contents he wants to display, L^AT_EX takes care of all formatting and display requirements **automatically**.
2. It is a vendor-independent, platform independent tool. You are not constrained by the idiosyncracies of a specific, proprietary, software.
3. L^AT_EX is excellent for type setting mathematically rich documents.
4. L^AT_EX takes care of all management related activities e.g. numbered lists, sections and subsections, index preparation, cross-referencing, TOC.
5. L^AT_EX gives a very sophisticated bibliography management facility. This is a very useful feature, for documents like : project reports, theses, dissertations.

Finally, one may add that L^AT_EX is the default choice of *algo^{logic}*, for all reports and documentation.

Do you think L^AT_EX is too cumbersome ? You think you can never master this great tool ? Are you looking for help ? Then, look no further. There are many ways to learn L^AT_EX painlessly :

1. Just buy the two books : [2], and [3], and read. Keep these two books handy, whenever you are working with L^AT_EX .
2. Take a good L^AT_EX file, and hack it. Start with this very same Tex file. Hacking is easy, fast and less frustrating, if you are the adventurous type, and have enough courage [1].
3. Ask Dr. Partha for his tutorial CDROM on L^AT_EX . This CDROM gives you everything you need, to get started on the L^AT_EX adventure.
4. Invite Prof. Partha to hold your hand, while you take the first steps. There is nothing more effective than a live presentation by a guru. To get a list of training programs by Prof. Partha, send an e-mail to:
`drpartha@gmail.com`

2.6 Deadlines and Milestones

Mention the exact date of start of the actual project. Then specify the exact date of end of the project. Then, list in tabular form the major

milestones and their expected dates. The first entry on this table will be: “start of the project“ (and date). the last entry in this table will be : ”end of project“ (and date). Your project can start only after the project proposal is accepted (by your institution, and by your guide).

Disclaimers (Optional): You can add appropriately worded disclaimers, in case you foresee any bottlenecks or hazards. Be clear, but do not be too pessimistic or negative.

2.7 Resources required

Mention specifically any special requirements. For instance, if you need a special instrument or some special tools, you can mention that here. You must also specify what plans you have, for making sure that these special resources are made available to you. Do you have any commitments or engagement from your project guide or your parent institution regarding the accessibility of these resources to you ? Do you have any fall-back arrangements if these resources are not available as planned ?

2.8 Working Arrangements

Mention here tie-ups. if any, with external organisations. What arrangement do you have with your parent institution ? What will the external organisations provide ? Who is your

external guide ? What is the background of your guide from the external organisation ? Who is your guide from your parent institution ?

2.9 Any other information or detail

You can add more subsections here, depending on the nature of your project e.g. if your project involves field visits, you can add a subsection titled “Field visits”, and give essential details.

2.10 Preliminary bibliography (literature survey)

A good literature survey will help you establish the grounds on which you will take up a project. It will help you orient yourself. For this proposal, you need to mention just the base documents or literature on which your project will be based. Use the *thebibliography* environment of L^AT_EX for creating the bibliography in this proposal. The bibliography should be structured similar to IEEE or ACM style for bibliographies. In your final project report however, you will use BibTeX and a formal bibstyle (IEEE or ACM).

2.11 Appendices and Index

Add appendices, if any. Create an Index.

YOUR PROPOSAL ENDS HERE

3 Closing remarks

This template will help you prepare your internship-project proposal. In addition to this template, Dr. Partha has prepared a collection of useful

material for preparing the proposal. The whole package comes as a self-documented, single zip file of xxxxMB. Ask Dr. Partha for a copy.

If you have any doubts, you can contact drpartha@gmail.com.

Good luck !

References

- [1] Parthasarathy S, *Learning by hacking, a new paradigm*, <http://drpartha.org.in/publications/hack2learn.htm>.
 - [2] Lamport L, *L^AT_EX guide and referennce manual*, Pub. Addison Wesley Publishing Company .
 - [3] Goossens M, F. Mittelbach, A.. *The L^AT_EX companion*, Pub.: Addison Wesley Publishing Company.
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