

EEE3094 Technical Report

Semester 1 Report

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CONTENTS

| | | |
|----------|-------------------------------|----------|
| 1 | Introduction | 2 |
| 2 | Literature Review | 2 |
| 3 | Theoretical Background | 2 |
| 4 | Results | 3 |
| 5 | Conclusion | 3 |
| 6 | References | 3 |
| 7 | Appendices | 3 |

Abstract

This is a placeholder for the abstract of the report.

INTRODUCTION

The Introduction should answer three basic questions:

What is the project about? This section should be a precise description of the subject matter of the report. It should also include the way it relates to other work in the School, if this is appropriate.

Why is it being undertaken? The reasons for undertaking the project are discussed in this section, outlining the objectives and importance of the work. Since it is important not to create a false impression of the outcome of the project a brief statement is made regarding whether or not the aims of the project were achieved, and, if not, why not.

How is the subject matter of the project described? – This should be a ‘Road-Map’ of the dissertation. This is a ‘Road-Map’ of the dissertation and comprises a short summary of the contents of the subsequent sections. It informs the reader where, for example, the methods used, results obtained, etc. are to be found.

LITERATURE REVIEW

The Literature Review defines the current state of research in your area and places your work in context with other work in your project area. It also acts as the foundation for the comparison of your results with other relevant work in the ‘Discussion’ chapter in your Individual Project.

The review is a summary of relevant articles (that is, material relevant to the background to your project, overview of the subject, discussion of any essential theories, etc.) published in technical journals, conference proceedings, books, websites, etc. - avoid using very general references. The majority of references should be books or journal papers; web sites should appear only occasionally in the list.

Most journals have ‘Special Issues’ on given topic areas. These are good sources of review material and contain large numbers of references.

However, do not cite a reference unless you have read it. Furthermore, a Literature Review which only cites Stage I and II lecture notes and text books is not considered to be adequate.

It is imperative to attribute any information cited in the report to the source from which it was obtained - failure to reference material properly could result in plagiarism.

The list of references should be provided in the same format as in IEEE Transactions or IET Proceedings.

THEORETICAL BACKGROUND

This section should provide the theoretical background to the project. It should include any relevant equations, derivations, and explanations of concepts that are essential for understanding the project.

RESULTS

Results should be presented in a clear and succinct way so that they can be easily interpreted and also supported by appropriate text which highlights the significant aspects of the results.

If a design project has been undertaken the results will comprise measurements, observations and simulations which have been carried out in order to assess how closely the design correlates to its specification in terms of its functionality, performance, area, power dissipation, etc.

In this section the results of your investigation or design are analysed and compared, if appropriate, to related work in the field. Again, it is also useful to reiterate the aims of the project so that your discussion can be put in context. What ensues thereafter depends upon the project. For example, it may include a comparison of:

- Measured results with simulation data, or results outlined in related technical publications.
- Results from different proposed solutions, different implementations of the same solution – advantages / disadvantages of each.
- Design performance against its specification.

The discussion may also include a Retrospective Section where, considering the knowledge and experience you gained from the project, you may give a brief account of how you would have tackled the project differently.

Suggestions for extending the work of the project can also be outlined in this section.

CONCLUSION

The conclusions should be very succinct and depending on the project may contain:

- Statements on the deductions obtained from the results.
- Comments on the extent to which the original aims of the project were fulfilled.
- Novelty of the solutions proposed - merits and limitations.
- Statement of potential applications.

REFERENCES

The list of references follows immediately after the conclusions. Each reference should be cited somewhere in your dissertation, and there should be no citations that refer to references that cannot be found in the list. Use IEEE standard for referencing.

APPENDICES

should be used for material that is relevant to the project but disrupts the flow of the main text, e.g. detailed derivations, additional graphs, tables of results, program listings, etc.