**Department of Electrical, Computer, and Software Engineering**

**Part IV Research Project**

Literature Review and Statement of Research Intent

Project Number:

[Title of Report]

[Names of the author]

[Name of the project partner]

[Name of project supervisor(s)]

[Date including year DD/MM/YYYY]

**Declaration of Originality**

This report is my own unaided work and was not copied from nor written in collaboration with any other person.

[Signature]

Name: [Report’s author name here]

**ABSTRACT:** This is a layout specification and template definition for the report of the Literature Review and Statement of Research Intent report Department students. This template has been generated for producing literature review report like in Masters thesis. The total page length should not exceed 8 pages (excluding the title page, declaration of originality, references and the Gantt chart).

# Literature Review

This template can be found on Canvas. Please use either MS-Word® format file when preparing your submission. The depicted guidelines include complete descriptions of the fonts, spacing, and related information for producing your manuscripts. Please follow them and if you have any questions, direct them to the final year research projects committee.

# Research Intent

What question(s) or problem is your research seeking to answer? Why do you think this project is worth doing? What are the steps that you are going to take to accomplish the results? Your project plan should be divided with your partner and presented.

# Page layout and style

The page layout should match the following rules. A highly recommended way to meet these requirements is to use the given template (Word®) and check details against the corresponding example file.

## Basic layout features

1. The ***Literature Review and Statement of Research Intent*** report will be printed in A4 format. All printed material, including text, illustrations, and charts, must be kept within a print area of 165 mm wide by 226 mm high. Do not write or print anything outside the print area. Text must be fully justified.

* Single column, double spacing should be used except for the title part and possibly for large figures that need a full page width.
* Left margin is 20 mm.
* Column width is 80 mm.
* Top margin 25 mm (except first page 30 mm to title top).
* Text height (without headers and footers) is maximum 235 mm.
* Headers and footers should be left empty.
* Check indentations and spacing by comparing to this example file (in PDF).

### Headings

Section headings are centered in boldface with the first word capitalized and the rest of the heading in lower case (sentence case). Sub- headings appear like major headings, except they start at the left margin in the column. Sub-sub-headings appear like sub-headings, except they are in italics and not boldfaced. See examples in this file. No more than 3 levels of headings should be used.

## Text font

Times or Times Roman font is used for the main text. Recommended font size is 10 points which is also the minimum allowed size. Other font types may be used if needed for special purposes. It is VERY IMPORTANT that while making the final PDF file, you embed all used fonts!

## Illustrations, graphs, and photographs

All figures should be centered on the column (or page, if the figure spans both columns). Figure captions should follow each figure and have the format given in Fig. 1 and put below the figure.

Figures should be preferably line drawings. If they contain gray levels or colors, they should be checked to print well on a high-quality non-color laser printer.

Graphics (ie, illustrations, figures) must not use stipple fill patterns because they will not reproduce properly in Acrobat PDF. Please use only SOLID FILL COLOURS.

Figures should preferably be recreated, if taken from other sources, the source should be cited and put in reference.

## Tables

An example of a table is shown as Table 1. Somewhat different styles are allowed according to the type and purpose of the table. The caption text may be above the table. Both Figure and Tables should be referred to in the body of the text.

## Equations

Equations should be placed on separate lines and numbered. Examples of equations are given below. Use Equation Editors for neat representation. Equations should be numbered sequentially, and centrally placed, number at the right-side. Particularly,

 (1)

where  is a special warping function,

 (2)

Table 1: This is an example of a table

|  |  |
| --- | --- |
| Ratio | Decibels |
| 1/1 | 0 |
| 2/1 | ≈ 6 |
| 3.16 | 10 |
| 1/10 | 20 |
| 10/1 | -20 |
| 100/1 | 40 |
| 1000/1 | 60 |

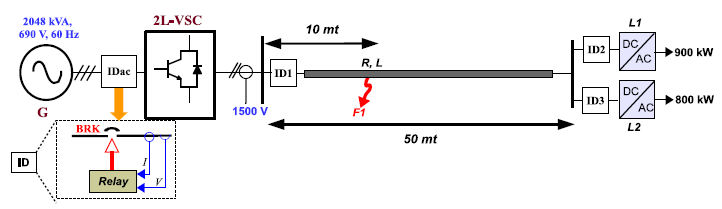


Fig. 1. Simulation schematic of the point-to-point DC system [2].

Table 1 shows the ratio vs decibel for the related application. The schematic diagram for the test system is shown in Fig. 1 [2].

A residue theorem states that

 (3)

Applying theorem 3 to 1, it is quite straightforward to see that

! (4)

Finally we have proven the secret theorem of all speech sciences. No more maths is needed to show how useful the result is!!

## Hyperlinks

Hyperlinks can be included in your report, if written in full, eg. "http://www.foo.com/index.html". The link text must be all black. Please make sure that they present no problems in printing to paper.

## Page Numbers

Page numbers needed to be indicated at the right lower corner of each page excluding the first page of the report. Do not include page numbers in the title and declaration pages. *Please* *don't make any footers or headers!*

## References

The reference format is the standard IEEE one. References must be numbered in order of appearance, for example [1], [2] and [3]. For proper citation and references listing it is highly recommended to use EndNote and RefWorks software for MSWords and JabRef for Latex format files.

## Student affiliation

Please use the same affiliation format in this sample report.

## Submitted files

Students are requested to submit PDF files of their manuscripts. The PDF file should comply with the following requirements: (a) there must be no PASSWORD protection on the PDF file at all; (b) all fonts must be embedded; and (c) the file must be text searchable (do CTRL-F and try to find a common word such as 'the').

# Discussions

This is the discussions and results if any. Is there any discussion? Then this is the discussion.

# Conclusions

This template can be found and downloaded from Canvas.

# Acknowledgements

The student would like to thank the supervisor Gerard Hanson and the sponsoring company ‘Intelligent Automation’ for providing the support and guidelines to make this project successful. Acknowledgement section has no number.

# References

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# Appendix A

Students may introduce here a proof of a formula used in the report, a piece of software code, additional graphs, template of a schematic diagram, and any other information that might be helpful in describing the topic under investigation.

This section is not mandatory and it may not be needed in many of the reports, especially literature review.