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by

**{Author’s Name}**

School of Electrical Engineering and Computer Science  
The University of Queensland.

Submitted for the degree of {Your Program} as part of the course {Course Code e.g. REIT4841}.

Date of Submission

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Prof Michael Brünig,

Head of School

School of Electrical Engineering and Computer Science

The University of Queensland

St Lucia QLD 4072

Dear Professor Brünig,

In accordance with the requirements of the Degree of {Bachelor of Engineering (Honours)} in the School of Electrical Engineering and Computer Science, I submit the following thesis entitled

“{Title of thesis}”

The thesis was performed under the supervision of {Supervisor’s Title and Full Name}. I declare that the work submitted in the thesis is my own, except as acknowledged in the text and footnotes, and that it has not previously been submitted for a degree at the University of Queensland or any other institution.

Yours sincerely

\_\_\_ {Your signature here once document is printed} \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

{Your name}

# Declaration by Author

This thesis is composed of my original work, and contains no material previously published, written by another person, or generated by artificial intelligence (AI), except where clearly referenced and acknowledged either in the main text or the preliminary pages of this thesis. I have clearly stated the contribution of others to jointly authored works that I have included in my thesis.

I have clearly stated the contribution of others to my thesis as a whole, including statistical assistance, survey design, data analysis, significant technical procedures, professional editorial advice, use of AI tools, financial support and any other original research work used or reported in my thesis. The content of my thesis is the result of work I have carried out since the commencement of my enrolment in the course code indicated on the title page, and does not include a substantial part of work that has been submitted to qualify for the award of any other degree or diploma in any university or other tertiary institution. I have clearly stated which parts of my thesis, if any, have been submitted to qualify for another award.

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# Acknowledgments

Acknowledge your supervisor(s), preferably with a few short and specific statements about their contribution to the content and direction of the project. If you collaborated with another student, acknowledge your partner's contribution, including any parts of the thesis of which s/he was the principal author or co-author; this information can be duplicated in footnotes to the chapters or sections to which your partner has contributed. Briefly describe any assistance that you received from technical or administrative staff. Support of family and friends may also be acknowledged but generally sentimentality is avoided or hidden in the dedication.

Acknowledge any funding received (e.g., if the project is funded in part by a research grant or industry partner).

# Abstract

This document is a skeleton thesis for 4th-year students. The notes and instructional text are displayed in purple and are meant to be informative but not necessarily illustrative; for example, this paragraph is not really an abstract, because it contains information not found elsewhere in the document. The LATEX 2ε source file (skel.tex) contains some non-printing comments giving additional information for students who wish to typeset their theses in LATEX. You can download the source, edit out the unwanted material, insert your own frontmatter and bibliographic entries, and in-line or \include{} your own chapter files. Of course, the content of a particular thesis will largely influence the form. Hence this document should not be seen as an attempt to force every thesis into the same mold. If in doubt about the structure of your thesis, seek advice from your supervisor.

Contents

[Declaration by Author iv](#_Toc205771614)

[Use of AI Statement v](#_Toc205771615)

[Acknowledgments vi](#_Toc205771616)

[Abstract vii](#_Toc205771617)

[List of Figures (optional) ix](#_Toc205771618)

[List of Tables (optional) ix](#_Toc205771619)

[1. Introduction 1](#_Toc205771620)

[1.1 Sub-heading as required 1](#_Toc205771621)

[1.2 Sub-heading as required 1](#_Toc205771622)

[2. Literature Review 2](#_Toc205771623)

[2.1 Sub-heading as required 2](#_Toc205771624)

[2.2 Sub-heading as required 2](#_Toc205771625)

[3. Theory 2](#_Toc205771626)

[3.1 Sub-heading as required 2](#_Toc205771627)

[3.2 Sub-heading as required 2](#_Toc205771628)

[4. Methodology 3](#_Toc205771629)

[4.1 Sub-heading as required 4](#_Toc205771630)

[4.2 Sub-heading as required 4](#_Toc205771631)

[5. Study 1 – Change this title! 5](#_Toc205771632)

[5.1 Aims 5](#_Toc205771633)

[5.2 Methods 5](#_Toc205771634)

[5.3 Results 5](#_Toc205771635)

[5.4 Discussion 5](#_Toc205771636)

[6. Study 2- Change this title! 6](#_Toc205771637)

[6.1 Aims 6](#_Toc205771638)

[6.2 Methods 6](#_Toc205771639)

[6.3 Results 6](#_Toc205771640)

[6.4 Discussion 6](#_Toc205771641)

[7. Study 3 – Change this title! 7](#_Toc205771642)

[7.1 Aims 7](#_Toc205771643)

[7.2 Methods 7](#_Toc205771644)

[7.3 Results 7](#_Toc205771645)

[7.4 Discussion 7](#_Toc205771646)

[8. General Discussion and Conclusions 8](#_Toc205771647)

[8.1 Summary 8](#_Toc205771648)

[8.2 Discussion 8](#_Toc205771649)

[8.3 Conclusions 8](#_Toc205771650)

[8.4 Future Word 8](#_Toc205771651)

[References 9](#_Toc205771652)

[Appendix A 10](#_Toc205771653)

[Appendix B 10](#_Toc205771654)

# List of Figures (optional)

# List of Tables (optional)

1. Introduction

The introductory chapter describes the importance of the field and the scope and significance of your project. It usually ends with an overview of the remainder of the thesis.

Notice that Arabic page numbering begins with Chapter 1. Preceding pages (known as “frontmatter”) have Roman numbering. The book document class in LATEX follows this numbering convention by default (see Lamport [1], p. 80).

All of the material from your project proposal can be reused in this thesis. This is not considered plagiarism because you have permission to reuse the work in this way.

## Sub-heading as required

You many want to use sub-headings here… you may not!

## Sub-heading as required

1. Literature Review

You will need to review previous work in the field, which may include books and papers (“literature”), patents and commercial products (“prior art”), and earlier work in your Department. This information is usually (but not always) collected in a single chapter, whose title should preferably be more specific and interesting than the one above. Use the literature review from your project proposal as a starting point. You will likely need to make some changes (e.g. adding additional references, paragraphs).

## Sub-heading as required

You many want to use sub-headings here… you may not!

## Sub-heading as required

1. Theory

A scientific paper is likely to be read by people who are not specialists in the same field as the author(s), but who nevertheless may need to use the results of the paper in their own fields. Similarly, the examiners of your thesis will probably include at least one academic who does not teach or conduct research in the subject area of your thesis. In an early chapter of your thesis, therefore, you should quote any theoretical results which are necessary for the understanding of later chapters. Examiners who are not specialists in your area will know whether you have given sufficient theoretical information. They will also know whether you have insulted their status by presenting material which is familiar to every half-competent graduate in every field of ECE.

## Sub-heading as required

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## Sub-heading as required

Theory sections often contain equations like the equation for the Fourier series of the function

|  |  |  |
| --- | --- | --- |
|  |  | ( 1) |

where is the average value of the function, and are the coefficients for the th harmonic …… etc

Equations in Word can be tricky, this one is set up in a 1x3 Table, and Word’s automatic Cross referencing feature is used to set up Equation numbering. It takes a minute to setup, but you can then refer to Equation ( 1) in text and Word will update the equation number automatically if you need to change it later.

**Setting up automatic equation numbers in Word:**

1. Insert a 1×3 table (Insert → Table → 1×3).
2. Left cell: leave empty (spacing)
3. Middle cell: equation (centered)
4. Right cell: equation number (right-aligned)
5. In the middle cell, press Alt + = (Windows) or Control + = (Mac) to insert an equation.
6. In the right cell, go to References → Insert Caption.
7. Click “New Label…” and type ( (just the open parenthesis).
8. Click “Numbering…” and choose the format (1, 2, 3…).
9. After inserting, type ) manually after the number.

**Format:**

1. Middle cell: center align.
2. Right cell: right align.
3. Remove table borders: Right-click → Table Properties → Borders and Shading → None.
4. Adjust cell widths to keep equations centered.

**Cross-referencing an equation number:**

1. Place your cursor where you want the reference in your text.
2. Go to References → Cross-reference.
3. In the “Reference type” dropdown, choose your custom label "(" (it will appear in the list).
4. In “Insert reference to”, choose Only label and number so you get (3) instead of extra text.
5. Select the equation you want from the list, then click Insert.
6. If numbering changes, all cross-references will update when you press Ctrl + A → F9.
7. Methodology

This may be one chapter or several. Again, titles should be more informative than the above.

## Sub-heading as required

You will almost certainly need diagrams to clarify your meaning. The LATEX 2*ε* graphics package allows the inclusion of PostScript graphics, as in Fig. 4.1. The inclusion of LATEX picture graphics, as in Fig. 4.2, requires no auxiliary packages and allows the mathematical formatting features of LATEX to be used in diagrams; but the picture files, unlike PostScript files, usually require manual editing.

The caption for the Figure 1 below is setup using Words cross referencing feature. If you mouse over the “Figure 1” in sentence above, it will allow you to follow a link to the Figure. The cross-referencing feature allows you to refer to the figure in-text (like your referencing manager) and Word will update figure numbers as required.

Figure 1. [caption goes here] Experimental two-way active crossover (op-amp version)

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## Sub-heading as required

1. Study 1 – Change this title!

The layout in this section is Theory, Methods, Study 1, Study2, Study 3 but this may not suit your project! You can change this sections to whatever you need.

## Aims

## Methods

## Results

The caption for the Table 1 below is setup using Words cross referencing feature. If you mouse over the “Table 1” in the sentence above it will allow you to follow a link to the Figure. The cross-referencing feature allows you to refer to the figure in-text (like your referencing manager) and Word will update figure numbers as required.

Table 1 Fraction of air volume involved in heat exchange for second mode (right column) vs. filling factor (left column). The plain-text headings represent f, m, µ2 and f2.

|  |  |  |  |
| --- | --- | --- | --- |
| f(%) | m | µ2 | f2 (%) |
| 0.016 | 80.00 | 0.05400 | 4.874 |
| 0.031 | 56.57 | 0.07732 | 5.438 |
| 0.062 | 40.00 | 0.11103 | 6.125 |
| 0.125 | 28.28 | 0.16001 | 6.970 |
| 0.250 | 20.00 | 0.23175 | 8.020 |
| 0.500 | 14.14 | 0.33799 | 9.329 |
| 1.000 | 10.00 | 0.49789 | 10.967 |
| 2.000 | 7.07 | 0.74444 | 13.008 |
| 4.000 | 5.00 | 1.13919 | 15.525 |
| 8.000 | 3.54 | 1.81095 | 18.568 |
| 19.237 | 2.28 | 3.61958 | 23.174 |
| 37.180 | 1.64 | 7.28635 | 27.094 |
| 57.392 | 1.32 | 14.63631 | 29.813 |
| 74.316 | 1.16 | 29.35160 | 31.453 |
| 85.734 | 1.08 | 58.79364 | 32.360 |

## Discussion

1. Study 2- Change this title!

## Aims

## Methods

## Results

## Discussion

1. Study 3 – Change this title!

## Aims

## Methods

## Results

## Discussion

1. General Discussion and Conclusions

## Summary

## Discussion

## Conclusions

## Future Word

# References

Use your reference manager to insert references in the text and then generate this list automatically. Check all the references as they are printed below to ensure they are complete and correct.

1. L. Lamport, *L*A*TEX: A Document Preparation System*, 2nd ed. (Addison-Wesley, 1994).
2. REFERENCE 2
3. Etc.

# Appendix A

Appendices are useful for supplying necessary details or explanations which do not seem to fit into the main text, perhaps because they are too long and would distract the reader from the central argument. Appendices are also used for program listings. Notice that appendices are “numbered” with capital letters, not numerals. When the \appendix command in LATEX [1, p. 175] is used with the book document class, it causes subsequent chapters to be treated as appendices.

# Appendix B