

Project Title

Author Name

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**Dissertation submitted in partial fulfilment for the degree of
Master of Science in xxx (*insert your degree title*)**

**Computing Science and Mathematics
University of Stirling**

Abstract

Summary of the dissertation *within one page*. Unnumbered chapter headings, as above, are entered using the *Unnumbered 1* paragraph style. The *Unnumbered 1* style automatically starts a new page.

This template starts the page numbering at the foot of this page. While you are printing drafts, you might find it useful to add the printing date and time into the footer – to help you, and your supervisor, tell which version is most current.

Note: You are required to submit one extra copy of your title page and Abstract.

It is suggested that the abstract be structured as follows:

- Problem: What you tackled, and why this needed a solution
- Objectives: What you set out to achieve, and how this addressed the problem
- Methodology: How you went about solving the problem
- Achievements: What you managed to achieve, and how far it meets your objectives.

Attestation

I understand the nature of plagiarism, and I am aware of the University's policy on this.

I certify that this dissertation reports original work by me during my University project except for the following (*adjust according to the circumstances*):

- The technology review in Section 2.5 was largely taken from [17].
- The code discussed in Section 3.1 was created by Acme Corporation (*www.acme-corp.com/JavaExpert*) and was used in accordance with the licence supplied.
- The code discussed in Section 3.5 was written by my supervisor.
- The code discussed in Section 4.2 was developed by me during a vacation placement with the collaborating company. In addition, this used ideas I had already developed in my own time.

Signature (*you must delete this, then sign and date this page*)

Date

Acknowledgements

Acknowledge anyone who has helped you in your work such as your supervisor, technical support staff, fellow students or external organisations. Acknowledge the source of any work that is not your own.

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Similarly you can automatically generate a list of figures from paragraphs of style *Figure*. To update this after revisions, right-click in the table and choose *Update Field* for the entire table.

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1 Introduction

For editorial consistency, it is important to use Word styles properly. Word 2003 onwards has so-called quick styles. If the styles referred to below are not visible on the *Home* ribbon in the *Styles* category, choose *Apply Styles* from the down arrow at the bottom right of the *Styles* category. Styles can then be applied from the drop-down box. To make a style visible as a quick style, choose *Apply Styles*, then click *Styles* (the *AA* icon), then click on the drop-down list for a style, and then *Add to Quick Style Gallery*.

Chapters are entered using the Heading 1 paragraph style. The Heading 1 style automatically moves to the start of a new page, and supplies the next chapter number. The new paragraph when you press Return after a heading automatically uses the *Body First* paragraph style (like this one, with no indent on the first line).

However most text uses the Body Text paragraph style (like this one, with 11 point Times New Roman, 1.5 line spacing, single-sided pages). Enter most text using the Body Text paragraph style. The new paragraph when you press Return after a Body First paragraph automatically uses the Body Text paragraph style.

In general, use the default spacing that headings and paragraphs give you. Avoid using new-lines or spaces to format text. If you need to use quotes, preferably use single curly quotes ‘...’. If you wish to emphasise something, usually use *italic font*.

Remember to Save frequently while you are working!

1.1 Background and Context

Give the background to your project and context of what you have done. Sections are entered using the *Heading 2* paragraph style – the *Heading 2* style automatically supplies the next section number.

1.2 Scope and Objectives

Define the scope and objectives of your project.

1.3 Achievements

Summarise what you have achieved.

1.4 Overview of Dissertation

Briefly overview the contents of what follows in the dissertation.

2 State-of-The-Art

Summarise current knowledge and what others have done in the various topics of your dissertation – in the application area and in the various technologies that you might have used or did use. Write for someone familiar with computing, but not necessarily expert in the particular topics of your project. Give references to other work by using *cross-references* to entries in the References section, like this [2].

3 Technical Chapters (change this to something appropriate)

Note: This part of the dissertation will normally be expanded to be *a series of chapters*.

The technical body of the dissertation consists of a number of chapters (just one here, but there will usually be more). Follow a logical structure in how you present your work. This will usually be the phases of the software development cycle, the modules of your system, etc. ***However, please do not write your dissertation to read like a diary.***

Include a chapter demonstrating what you have achieved and how your system is used in practice – for example showing a typical session as a series of pasted in screen shots, with an accompanying commentary.

You ***should*** also include a chapter explaining how you obtained feedback from your “customer” or potential users of your system, what feedback you actually obtained, and your analysis and comments.

3.1 First Section

Subdivide your text into sections.

3.1.1 First Subsection

If necessary, also use subsections. Subsections are entered using the *Heading 3* paragraph style (all these heading styles are self-numbering).

3.1.1.1 First Subsubsection

If you really need subsubsections, enter these using the *Heading 4* paragraph style.

3.1.2 Second Subsection

And, as required, more subsections.

3.2 Second Section

As an example of a figure, consider Figure 1. Captions are entered using the *Figure* paragraph style. The figure below is placed in a *Body Centre* paragraph, which is set up in this document to have an automatic *Figure* paragraph following it. *Figure* has automatic figure numbering,

and it is possible to make *cross-references* to figures. Move large figures to the top of the next page, *past any other text*, rather than having a big gap in the text.

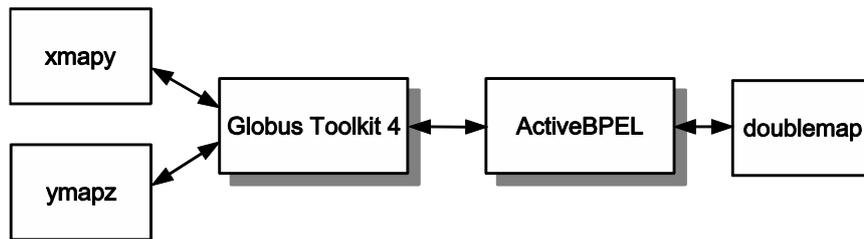


Figure 1. Highly Technical Diagram

4 Conclusion

4.1 Summary

Summarise what you have achieved.

4.2 Evaluation

Stand back and evaluate what you have achieved and how well you have met the objectives. Evaluate your achievements against your objectives in section 1.2. Demonstrate that you have tackled the project in a professional manner.

(The previous paragraph demonstrates the use of automatic cross-references: The “1.2” is a *Cross-reference* to the text in a numbered item of the document, it is *not* literal text but a *field*. The number that appears here will change automatically if the number on the referred-to section is altered, for example if a chapter or section is added or deleted before it. Cross-references are entered using Word's **Insert** menu. Cross-references are set to update automatically when printed, but may not do so on-screen beforehand; you can update a field manually on-screen by right-clicking on it and selecting Update field from the pop-up menu.)

4.3 Future Work

Explain any limitations in your results and how things might be improved. Discuss how your work might be developed further. Reflect on your results in isolation and in relation to what others have achieved in the same field. This self-analysis is particularly important. You should give a critical evaluation of what went well, and what might be improved.

References

Use the *Reference* paragraph style to enter and cross-reference document references. Books [1], standards [2], reports [3], journal articles [4], conference papers [5], and web pages [6] are conventionally presented in slightly different ways.

- [1] Greene, D. and Williams, P. C. *Linear Accelerators for Radiation Therapy*, Second Edition. IOP Publishing Ltd., Bristol and Philadelphia, 1997.
- [2] ISO. *Language Of Temporal Ordering Specification*, ISO 8807, International Organization for Standardization, Geneva, 1989.
- [3] Jacobson, J. and Andersen, O., editors. *Software Controlled Medical Devices*. SP Report 1997:11, Swedish National Testing and Research Institute, Sweden, 1997.
- [4] Turner, K. J. The Rules for Sailing Races on PDAs, *J. Navigation*, 23(5):114-240, May 2002.
- [5] Ji, H. and Turner, K. J. Specification and Verification of Synchronous Hardware using LOTOS. In Wu, J. Chanson, S. T. Gao, Q. editors, *Proc. Formal Methods for Protocol Engineering and Distributed Systems (FORTE XII/PSTV XIX)*, pages 295-312, Kluwer Academic Publishers, London, UK, October 1999.
- [6] University of Stirling. Computing Science and Mathematics Research Home Page, <http://www.cs.stir.ac.uk/research>, April 2002.

Appendix 1

You may have one or more appendices containing detail, bulky or reference material that is relevant though supplementary to the main text: perhaps additional specifications, tables or diagrams that would distract the reader if placed in the main part of the dissertation. Make sure that you place appropriate cross-references in the main text to direct the reader to the relevant appendices.

*Note that you should **not** include your program listings as an appendix or appendices. You should submit one copy of such bulky text as a separate item, perhaps on a disk.*

Appendix 2 – User guide

If you produced software that is intended for others to use, or that others may wish to extend/improve, then a user guide and an installation guide appendices are *essential*.

Appendix 3 – Installation guide

If you produced software that is intended for others to use, or that others may wish to extend/improve, then a user guide and an installation guide appendices are *essential*.