Proportion of Public Vehicles and Private Vehicles

A Thesis Proposal
Presented to
the Faculty of the College of Computer Studies
De La Salle University Manila

In Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science

by

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Abstract

From 150 to 200 words of short, direct and complete sentences, the abstract should be informative enough to serve as a substitute for reading the thesis document itself. It states the rationale and the objectives of the research.

In the final thesis document (i.e., the document you'll submit for your final thesis defense), the abstract should also contain a description of your research results, findings, and contribution(s).

Keywords can be found at http://www.acm.org/about/class/class/2012 ?pageIndex=0. Click the link "HTML" in the paragraph that starts with "The full CCS classification tree...".

Keywords: Keyword 1, keyword 2, keyword 3, keyword 4, etc.

Contents

1	Res	earch Description	1
	1.1	Overview of the Current State of Technology	1
	1.2	Research Objectives	3
		1.2.1 General Objective	3
		1.2.2 Specific Objectives	3
	1.3	Scope and Limitations of the Research	4
	1.4	Significance of the Research	4
2	Rev	view of Related Literature	5
	2.1	Review of Related Paper	5
	2.2	Review of Related Software	6
3	Res	earch Methodology	7
	3.1	Research Activities	7
	3.2	Calendar of Activities	8
\mathbf{A}	Dia	grams and Other Documentation Tools	9
В	$Th\epsilon$	eoretical and/or Conceptual Framework	10

C Resource Persons	11
References	12

List of Figures

1.1 This is the figure's caption – Disney stock chart		2
---	--	---

List of Tables

3.1	Timetable of	of Activities																										8
-----	--------------	---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

Chapter 1

Research Description

Make sure to write a preamble for each chapter, i.e., a short description of what each chapter contains before the first section within the chapter. The preamble can be written in about two to three sentences.

1.1 Overview of the Current State of Technology

This section gives the reader an overview of the specific technology or field in the international or local setting. The information regarding the technology or field should be contemporary and not based on outdated sources. Discussion must not be too technical or too detailed.

This section ends with a discussion on the problem/s faced by or that still exist in the specific technology or field (e.g., limitations of existing software or algorithms). The problem statement would lead to the research objectives.

It is easy to include a figure in JPG or PNG format as shown in the following example. Make sure that you explain what the figure is all about, and that you refer to your figure. For example, Figure 1.1 shows a graph of the performance of Disney stock from the 1980s to 2012.

Some notes on citing references. When using APA format, the author-date method of citation is followed. This means that the author's last name and the year of publication for the source should appear in the text, and a complete reference should appear in the reference list.

Here are some examples on how to do the referencing (note author's name and



Figure 1.1: This is the figure's caption – Disney stock chart

years are different from commented examples). For APA citation details, refer to http://www.ctan.org/tex-archive/biblio/bibtex/contrib/apacite/.

- Kartch (2000) compared reaction times...
- In a recent study of reaction times (Kartch, 2000)...
- In 2000, Kartch compared reaction times...
- Fedkiw et al. (2001) compared reaction times...
- In a recent study of reaction times (Fedkiw et al., 2001)...
- In 2001, Fedkiw et al., compared reaction times...

The following are references from journal articles (Park, Linsen, Kreylos, Owens, & Hamann, 2006; Pellacini et al., 2005; Sako & Fujimura, 2000). Here's an MS thesis document (Yee, 2000), and this is from PhD dissertation (Kartch, 2000). For a book, reference is given as (Parke & Waters, 1996). Proceedings from a conference samples are (Jobson, Rahman, & Woodell, 1995; Fedkiw et al., 2001; Levoy et al., 2000). The sample bibliography file named **myreferences.bib** is from the SIGGRAPH LATEX template. You can use a text editor to view the contents of the bib file. It is your task to create your own bibliography file. For those who downloaded papers from ACM or IEEE sites, there is a BibTeX link

that you can click; thereafter, you just simply need to copy and paste the BibTeX entry into your own bibliography file.

The following shows how to include a program source code (or algorithm). The verbatim environment, as the name suggests, outputs text (including white spaces) as is...

```
#include <stdio.h>
main()
{
    printf("Hello world!\n");
}
```

DO NOT FORGET to write the statement of the research problem here, i.e., before the Research Objectives.

1.2 Research Objectives

1.2.1 General Objective

This subsection states the over—all goal that must be achieved to answer the problem. Address the following: Given your research challenge or opportunity, how do you intend to solve it? What is the output of your research?

1.2.2 Specific Objectives

- 1. To review related literature, compare and contrast existing algorithms (on what problem?);
- 2. To develop a new algorithm (for what purpose?)
- 3. To analyze the algorithm (based on what criteria?)
- 4. To find a way to balance the volume of public vehicles and private vehicles

1.3 Scope and Limitations of the Research

This section discusses the boundaries (with respect to the objectives) of the research and the constraints within which the research will be developed.

1.4 Significance of the Research

This section explains why research must be done in this area. It rationalizes the objective of the research with that of the stated problem. Avoid including sentences such as "This research will be beneficial to the proponent/department/college" as this is already an inherent requirement of all BS and MS thesis projects. Focus on the research's contribution to the Computer Science field.

The following are guide questions that may help your formulate the significance of your research.

- What is the relevance of your work to the computer science community?
 - What will be your technical contributions, in terms of algorithms, or approaches, or new domain?
 - What is your value-added compared to existing systems?
- What will be your contributions to society in general?
 - Who will benefit from your system?
 - Who are your target users and how will this system benefit them?

Chapter 2

Review of Related Literature

This chapter discusses the features, capabilities, and limitations of existing research, algorithms, or software that are related/similar to the thesis.

The reviewed works and software must be arranged either in chronological order, or by area (from general to specific). Observe a consistent format when presenting each of the reviewed works. This must be selected in consultation with the prospective adviser.

DO NOT FORGET to cite your references.

2.1 Review of Related Paper

This section contains a review of research papers that:

- Describes work on a research area that is similar or relevant to yours
- Describes work on a domain that is similar or relevant to yours
- Uses an algorithm that may be useful to your work
- Uses a software / tool that may be useful to your work

2.2 Review of Related Software

This section contains a review of software systems that:

- \bullet Belongs to a research area similar to yours
- Addresses a need or domain similar to yours
- Is your predecessor

Chapter 3

Research Methodology

This chapter lists and discusses the specific steps and activities that will be performed by the proponent to accomplish the project. The discussion covers the activities from pre-proposal to Final Thesis Writing. It also includes an initial discussion on the theoretical framework to be followed.

3.1 Research Activities

Research activities include inquiry, survey, research, brainstorming, canvassing, consultation, review, interview, observe, experiment, design, test, document, etc. The methodology also includes the following information:

- who is responsible for the task
- the resource person to be contacted
- what will be done
- when and how long will the activity be done
- where will it be done
- why should be activity be done

3.2 Calendar of Activities

A Gantt chart showing the schedule of the activities should be included as a table. For example:

Table 3.1 shows a Gantt chart of the activities. Each bullet represents approximately one week worth of activity.

Table 3.1: Timetable of Activities

Activities (2009)	Jan	Feb	Mar	Apr	May	Jun	Jul
Study on Prerequisite			••	••••			
Knowledge							
Review of Existing Racing	••	••••	••••	••••			
Strategies							
Identification of Best Fea-				••••	••		
tures							
Development of Racing				••	••••	••	
Strategies							
Simulation of Racing Strate-				••	••••	•••	
gies							
Analysis and Interpretation					••••	••••	•
of the Results							
Documentation	••	••••	••••	••••	••••	••••	••

Appendix A

Diagrams and Other Documentation Tools

This appendix may consist of proposed architectural design, algorithms, scientific formula for MSCS and Data Flow Diagrams, Fishbone for MSIT.

Appendix B

Theoretical and/or Conceptual Framework

Discusses the basic framework/foundation the thesis is based on. This section is normally referred to when discussing Scope and Limitations, and Research Methodology

Appendix C

Resource Persons

Dr. Firstname1 Lastname1

Adviser College of Computer Studies De La Salle University-Manila emailaddr@dlsu.edu.ph

Mr. Firstname2 Lastname2

Role2 Affiliation2

emailaddr2@domain.com

Ms. Firstname3 Lastname3

Role3

Affiliation3

emailaddr3@domain.net

References

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