### A LATEX Thesis Template for ENCS Graduate Student from Concordia University

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A Thesis

in

**The Department** 

of

**Mechanical and Industrial Engineering** 

Presented in Partial Fulfillment of the Requirements

for the Degree of

Doctor of Philosophy (Industrial Engineering) at

**Concordia University** 

Montréal, Québec, Canada

November 2015

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#### CONCORDIA UNIVERSITY

#### School of Graduate Studies

This is to certify that the thesis prepared

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#### **Doctor of Philosophy (Industrial Engineering)**

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#### Abstract

#### A LATEX Thesis Template for ENCS Graduate Student from Concordia University

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**Concordia University, 2015** 

This thesis template has been created to make it easy to prepare your thesis using LaTeX while adhering to the Concordia University Thesis Specifications posted online. The official thesis examples are provided here: http://www.concordia.ca/content/dam/concordia/offices/sgs/docs/handbooks/thesispreparationguide.pdf. The template has been tested with TeXstudio, TeXworks, CTex, and TeXnic under MikTex 2.9, with UTF-8 encoding.

# Acknowledgments

Text of acknowledgments.

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### **Chapter 1**

### Introduction

Chapter 1 provides a brief summary on some basic LATEX elements to be used in a thesis. A comprehensive literature review on [your topic] is presented in Chapter 2. Bla bla bla ....

#### 1.1 Figure and Table

Text body of the Section 1.1.

#### 1.1.1 Figure

A figure example is shown in Figure 1.1.

#### 1.1.2 Table

Table 1.1 illustrates a very complex table with figures in its cells.

#### 1.2 Itemized examples using list structures in LATEX

Item list using "itemize" structure are given below:

- Use bold/italic for emphasis, but keep its use to a minimum. Avoid using underlining in your paper.
- Use a consistent spelling style throughout the paper (US or UK).



Figure 1.1: An illustration of requirement compliance.

Туре		Graphic Rep-	Description
	• 1	resentation	
Object	Object	Ο	Everything in the universe is an object
	Compound		It is an object that includes at
	Object	0	least two objects in it
	Constraint	[4]	It is a descriptive, limiting, or
	Relation	$n  \bullet                                  $	particularizing relation of one
			object to another
Relation	Connection	ection $\iota - \rightarrow$	It is to connect two objects that
			do not constrain each other
	Predicate	redicate $\rho \rightarrow \rho$	It describes an act of an object
	Relation		on another or that describes the
			states of an object

Table 1.1: Elements defined for the ROM (Zeng, 2008).

- Use double quotes.
- Use %, not percent.
- Do not use ampersands (&) except as part of the official name of an organization or company.
- Keep hyphenation to a minimum. Do not hyphenate 'coordinate' or 'non' words, such as 'nonlinear'.

The following are using "enumerate" structure:

- (1) For complete or near complete sentences, begin with a capital letter and end with a full stop.
- (2) For short phrases, start with lower case letters and end with semicolons.

#### 1.3 Algorithm

The pseudo code shown in Algorithm 1 describes the proposed algorithm.

```
Algorithm 1 Calculate the probability of G
Require: p \in [0, 1], G
Ensure: None
 1: for i = 0 \to 2^d - 1 do
                                                                                                     \triangleright d is an integer
        if n(\nu_i) = 0 then
 2:
 3:
            if x < p then
                                                         \triangleright x is a normal distribution number in the range of [0, 1]
 4:
                Occupy v_i site with probability p
 5:
            end if
        end if
 6:
 7: end for
```

#### 1.4 Equation

An equation example is shown in Eq. 1.

$$f(ENC) = \int_0^1 (e^x + x^2)$$
(1)

#### 1.5 Quotations

"It was easier in the beginning when there was only the RED-camera, but now, after RED, it just continuous. And all the different manufacturers, they cannot agree upon what is the standard file format, codec, or compression algorithms, and so on. It is a jungle."

CEO, Full Name (Company A)

#### **1.6** Citations

It is suggested that you choose "\**citet**" and/or "\**citep**" to cite references. The "\**citet**{**key**}" gives you a format of "**Name (1990)**", whileas "\**citep**{**key**}" delivers a format of "(**Name, 1990**)". For example, Wang and Zeng (2009) extended their research from (Zeng, 2008).

## Chapter 2

# **Literature Review**

Put your literature review contents here.

### Appendix A

# **My Appendix**

Appendix figure example is shown in A.1 below



Figure A.1: An figure example in Appendix A.

### References

- Wang, M., & Zeng, Y. (2009, April). Asking the right questions to elicit product requirements. International Journal of Computer Integrated Manufacturing, 22(4), 283–298. Retrieved from http://dx.doi.org/10.1080/09511920802232902 doi: 10.1080/09511920802232902
- Zeng, Y. (2008, August). Recursive object model (ROM) Modelling of linguistic information in engineering design. *Computers in Industry*, 59(6), 612–625. Retrieved 2015-10-21, from http://www.sciencedirect.com/science/article/pii/ S0166361508000249 doi: 10.1016/j.compind.2008.03.002