

VERIFICATION OF HIGH-INTEGRITY SYSTEMS IN SPARK/ADA
PROGRAMS BY EXAMPLE OF PCA-PUMP

by

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A THESIS

submitted in partial fulfillment of the
requirements for the degree

MASTER OF SCIENCE

Department of Computing and Information Sciences
College of Engineering

KANSAS STATE UNIVERSITY
Manhattan, Kansas

2014

Approved by:

Major Professor
John Hatcliff

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Abstract

This template uses a separate file for each section of your ETDR: title page, abstract, preface, chapters, reference, etc. This makes it easier to organize and work with a lengthy document. The template is configured with page margins required by the Graduate School and will automatically create a table of contents, lists of tables and figures, and PDF bookmarks.

Although the template gives you a foundation for creating your ETDR, you will need a working knowledge of LaTeX in order to produce a final document. You should be familiar with LaTeX commands for formatting text, equations, tables, and other elements you will need to include in your ETDR.

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1.1	Optional: Short caption to appear in List of Figures	1
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Dedication

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Preface

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Chapter 1

Chapter Title

In this chapter, there will be examples of various features you may want to incorporate into your document. Here's an example of a figure inserted into the text:

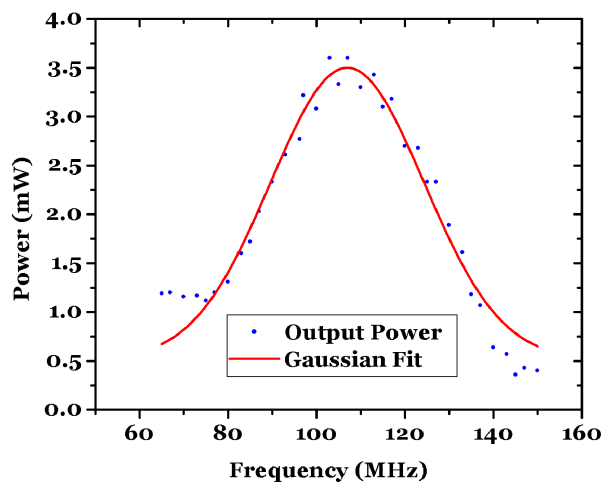


Figure 1.1: *Full caption to appear below the Figure*

Here is an example of a Table:

Column 1 Heading	Column 2 Heading	Column 3 Heading
Col 1 Row 1	Col 2 Row 1	Col 3 Row 1
Col 1 Row 2	Col 2 Row 2	Col 3 Row 2
Col 1 Row 3	Col 2 Row 3	Col 3 Row 3

Table 1.1: *Caption to appear below the table*

1.1 Making References to Figures or Tables

In this paragraph, we want to refer to Fig. 1.1 mentioned at the beginning of this chapter.

We also refer to the Table 1.1.

1.2 Making a Reference to a Chapter Subsection

In this section, we refer back to text mentioned in Section 1.1 on page 2.

1.3 Making a Citation

Here's an example of a citation to a single work.[?] It's also possible to make multiple citations.^{? ?}

Chapter 2

This is Chapter 2

In this chapter, I want to refer to Chapter 1, so I'm going to use the slash ref command along with the "makereference" label which I assigned back at the beginning of Chapter 1.

2.1 Page Number References

I should also be able to refer to a specific page number, such as page 1. Of course, I'll need to have a slash label command and a unique name in each section that I want to be able to refer to later in the text.

2.2 Referring to Sections Within Chapter 1

Now, I'm going to refer to different sections within Chapter 1. I gave an example of a figure in section 1.1 and an example of a table in section 1.2. In section 1.3, we looked at examples of bibliographic citations.

Chapter 3

This is Chapter 3

Here are more examples of referring to previous sections. In Chapter ?? there were several sections, including section 1.1, section 1.2, and section 1.3.

Likewise, in Chapter 2, there are sections 2.1 and 2.2.

Appendix A

Title for This Appendix

```
dm = 4
nm = 4
tm = 2
dimMAX = dm + 1;
part /: part[0] = {};
Do[part /: part[n] =
  Union[Flatten[
    Table[Sort[Join[{i}, #]] & /@ part[n - i], {i, 1, n}], 1]
  1, dimMAX]];
L = (Times @@ # &) /@ Map[c, part[dm], {2}];
```

Appendix B

Title for This Appendix