

THE TITLE OF DISSERTATION GOES HERE: DOUBLE SPACED IF TITLE IS
LONG AND WRAPS AROUND

by

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A DISSERTATION

Presented to the Faculty of the Graduate School of the
MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

In Partial Fulfillment of the Requirements for the Degree

DOCTOR OF PHILOSOPHY

in

MECHANICAL ENGINEERING

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PUBLICATION DISSERTATION OPTION

This dissertation consists of the following two articles, formatted in the style used by the Missouri University of Science and Technology:

Paper I: Pages 13-20 have been submitted to XYZ Journal.

Paper II: Pages 21-31 are intended for submission to ABC Journal.

Paper III: Pages 32-87 have been accepted by 123 Journal.

ABSTRACT

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NOMENCLATURE

Symbol	Description
β	Angle of Attack
α	Change in Coupler Angle

1. INTRODUCTION

1.1. USING THE DISSERTATION TEMPLATE

This is where the SECTION writing of the Publication Option begins, and it will be followed by a section conclusion after your PAPER writing. This section writing is required for the Publication Option, and it should broadly cover your overall research. This section writing should be able to stand alone and provide the reader an overview of your research in the event that any paper within the thesis/dissertation is removed. If you cite any sources within this section writing, they will appear in your Bibliography, which is separate from the references within your paper writing.

Note that the capitalization of your headings should be identical in the Table of Contents (TOC), so be sure to type 1st level headings and 2nd level subheadings in all caps, or use the “Change Case” option under the Font group to change them to “UPPERCASE.” By default, Word’s spellcheck will ignore words in all caps, so go to File > Options > Proofing and make sure “Ignore words in UPPERCASE” is not selected.

This text and all text within the body of the T/D uses “Style Body Text,” which can be found on the Styles menu under the Home tab. You can click the dialog box launcher in the corner of the Styles group to view the full Styles menu. All headings, text, figure titles, and table titles within your document have been mapped to the Style formats and should be used throughout your T/D in order for the Table of Contents, figures, etc. to function correctly.

1.1.1. How to Use the Style Formats. This is a 3rd level subheading and is indented 0.5 in. over from the left margin. This heading is NOT in all capital letters;

instead, the first letter of each major word is capitalized. The paragraph text begins immediately after the heading.

Because Word wants to treat the entire line as Heading 3, formatting them properly takes an extra step. First, click the down arrow on your Quick Access Toolbar and select “More Commands.” In the drop-down menu, select “All Commands,” scroll down to “Style Separator,” and press “Add.”

Now, type your 3rd level heading on a line by itself. Mark the heading as “Heading 3” in the Styles menu. With your cursor within the text of your heading, click the Style Separator tool in the Quick Access toolbar, or press Ctrl + Alt + Enter. Your body text should be moved up to the same line as your heading, but it will not be treated as part of the heading and will not appear in your Table of Contents. This is the way this template has formatted 3rd and 4th level headings.

The other way to work with 3rd level headings is to insert a carriage return at the end of the first line of the paragraph. This method requires more manual adjustment. If you format your 3rd level headings this way, the entire first line will appear in your TOC and the extra words will need to be removed.

The Styles to use for headings and titles are as follows:

- Appendix Title (1): use for the title under “APPENDIX” if you only have one appendix. This title is optional. It will not appear in your TOC
- Appendix Title (2): if you have multiple appendices, use this for only the title on the appendices’ title pages so it will link to your TOC. You will need to add in the word “APPENDICES” and the corresponding letter (e.g., “A” and “B”) in your TOC

- HEADING 0: all headings in the front matter (i – ix) that appear in the TOC, and for the heading “Appendix” if you only have one appendix
- TOC Heading 1: only used for the “Table of Contents” heading to avoid having it appear within your TOC
- Heading 1: all major section headings, such as “INTRODUCTION” at the beginning of the current section
- Heading 2, Heading 3, etc.: all subsection headings follow in a like manner (see 1.1 USING THE DISSERTATION TEMPLATE)
- Style Body Text: body text with a first-line indentation
- Normal: body text in the same paragraph as 3rd or 4th level headings (this style operates the same as Style Body Text, but does not have first line indentation)
- Figure Title: all figure captions
- Table Title: all table titles
- Paper Abstract: for the heading “Abstract” within your paper writing
- Paper Reference: for the heading “References” within your paper writing
- Paper Title: for your paper titles, with an uppercase Roman Numeral
- PAPER/SECTION Heading: use this for the word “PAPER” and “SECTION” at the start of your papers and section conclusion, but it will not link to the TOC
- Paper Authors: use if you list authors below paper title and before “ABSTRACT”

1.1.2. How to Use the Table of Contents. The TABLE OF CONTENTS, LIST OF ILLUSTRATIONS, LIST OF TABLES, and NOMENCLATURE all work in a similar manner. The TOC is automatically generated and uses the styles mentioned above. They are already linked together, so once you input your own content, all you

have to do is right click in the TOC and click “Update Fields” (and “Update Entire Table” if prompted) and your headings and page numbers automatically appear. All you will need to do in your TOC is add in “SECTION,” “PAPER,” single-space multilined headings, and write “APPENDICES” and the corresponding letter if you have multiple appendices.

If your line in the TOC is missing the dotted leader between the heading and the page number, put your cursor before the page number and hit the “Tab” key. This should move your page number over to the right margin and add the dotted leader.

The LIST OF ILLUSTRATIONS (LI) and LIST OF TABLES (LT) work in a similar manner, except they use the styles “Figure Title” and “Table Title,” respectively. Again, to update these, you will have to right-click the table and click “Update Field.” You can leave the word “Figure” or “Table” at the start of each line or you can have the word appear above the list of numbers, but you should not have both.

1.1.3. How to Add to the Nomenclature. Other tables such as for the NOMENCLATURE (NOM) are updated the same way as the TOC. However, to get a symbol to be added to the NOM, you must add a Field before the symbol. For example, suppose you wanted the symbol β to be added to the NOM. First, turn on the Show/Hide Paragraph Code button in the upper right corner of the Paragraph group in the Home tab. Then, press Ctrl + F9 to open up a Field tag. Inside the Field tag, you will type in the following:

```
{ TC “ $\beta$       Description Goes Here” \n \f NOM }
```

where inside the quotation marks, β is your symbol, followed by a tab and your description of the symbol. After the closing quotation mark, `\n` is used to suppress page numbers, and `\f NOM` links the entry to your Nomenclature section.

Try it out yourself by adding an entry for ϕ as “Golden Ratio Constant” and then updating your Nomenclature section. If done correctly, the new entry should be added between β and α .

The other way to insert a Field tag is to go to Insert > Quick Parts > Field. Then, in the Field Names box, scroll down and select TC, type the description for your symbol in the Text Entry box, check “Suppresses page numbers,” and press OK.” After this, you will still need to define your symbol and link it to your Nomenclature. Turn on the Show/Hide button, then type your symbol inside your opening quotation mark and press the tab button once. Then, add `\f NOM` to the end of the entry. To show another example, show the codes on this: α .

The spacing in your Nomenclature will need to be manually adjusted to be fully correct. When adjusting tabs and spacing, make sure your changes are not being linked to your TOC.

1.1.4. Formatting Figures. Figures should be formatted with the same amount of space above and below the actual figure (two carriage returns with double spacing). The title should be below the Figure. In your SECTION writing, the caption is designated with Figure x.y. where x is the number of the main section that the figure is in and y is the number of the figure in that section. For example, Section 1 could have Figures 1.1, 1.2, and 1.3. Then, Section 2 could have 2.1, 2.2, 2.3, and 2.4. Refer to figures like this: Figure 1.1 and 1.2 illustrate a classic four-bar linkage where R_1 is the ground link. Titles

and captions should be identical in the main body and in the LI/LT. If your figure has multiple parts (such as *a*, *b*, etc.), you can include a common title before the individual descriptions in your main body and then use only the common title in your LI/LT.

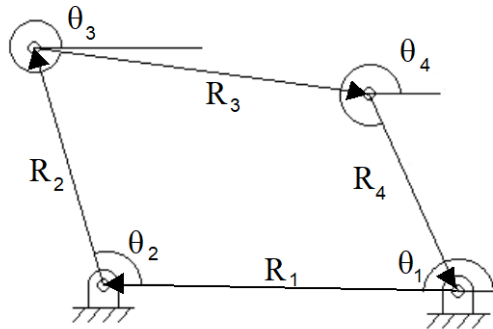


Figure 1.1. Example four-bar linkage.

Equations should be numbered throughout the T/D and should have one blank line before and after (one carriage return with double line spacing). Best practice is to introduce your equations before they appear, such as in Equation (1) and (2):

$$R_1 \cos \theta_1 + R_2 \cos \theta_2 + R_3 \cos \theta_3 + R_4 \cos \theta_4 = 0 \quad (1)$$

$$R_1 \sin \theta_1 + R_2 \sin \theta_2 + R_3 \sin \theta_3 + R_4 \sin \theta_4 = 0 \quad (2)$$

If your next line under an equation is a new paragraph, it should be indented. If it is within the same paragraph or the sentence continues after the equation (most commonly starting with “where”), then the line should not be indented.

1.1.5. Formatting Tables. Tables are formatted in much the same way as figures. The title is placed at the top, and an extra line of space is used above and below. Do this by inserting two carriage returns above and below, and add in 12 pt of “Before”

paragraph spacing in the line below the table unless it comes before a 2nd level heading.

The numbering of tables in the SECTION writing follows the same rules as the figures.

Table 1.1 is one such example.

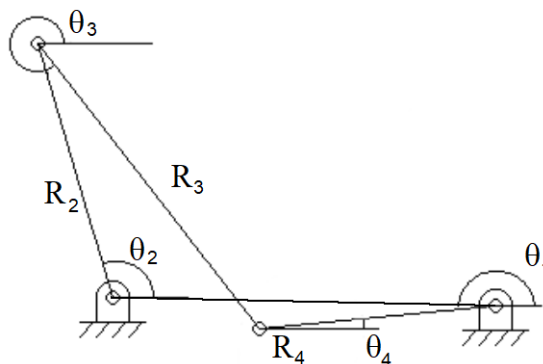


Figure 1.2. Four-bar linkage – crossed configuration.

Table 1.1. Original STATUS array for example mechanism.

	Loop #	Vector numbers											
		1	2	3	4	5	6	7	8	9	10	11	12
Mag	1	0	0	0	0	9	9	9	9	9	9	9	9
Dir	1	1	1	1	0	9	9	9	9	9	9	9	9
Mag	2	9	9	9	9	0	0	1	0	9	9	9	9
Dir	2	9	9	9	9	1	1	0	0	9	9	9	9
Mag	3	0	9	9	9	9	9	9	9	0	0	1	0

1.2. MORE EQUATIONS AND FIGURES

Below are new example equations. Note that they are Equations (3) and (4):

$$\theta_3 = 2 \tan^{-1} \left(\frac{-E \pm \sqrt{E^2 - 4DF}}{2D} \right) \quad (3)$$

$$\theta_4 = 2 \tan^{-1} \left(\frac{-B \pm \sqrt{B^2 - 4AC}}{2A} \right) \quad (4)$$

this line continues the sentence, where you will normally define the symbols that you used within your equations, so the first word is not capitalized or indented.

Shown below is Figure 1.2. Make sure that your punctuation and capitalization within your figure captions is consistent. If you decide to end your captions with a period, make sure to do so with all of them.

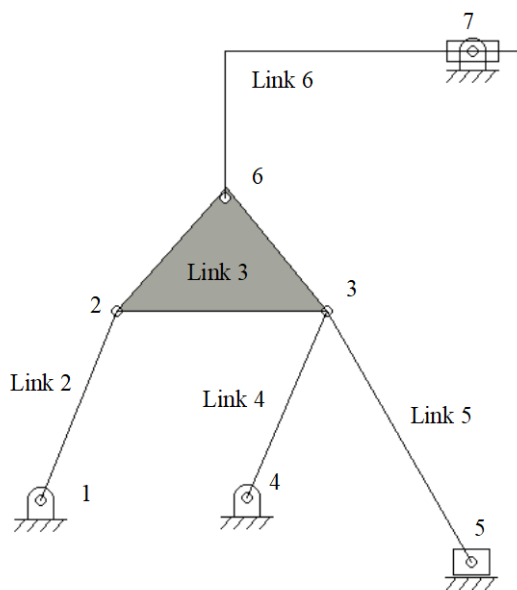


Figure 1.3. Example mechanism.

1.3. TIPS AND TRICKS FOR FORMATTING

This section will review helpful tips and tricks when using this template in order to achieve proper formatting. Note that this template was created for Word 2016; other versions of Word might vary.

1.3.1. Show/Hide Button. The Show/Hide button (¶) is located under the Home tab in the top right corner of the Paragraph group. This button will allow you to see non-printing characters such as spaces, tabs, carriage returns, and page breaks. If you are having formatting issues, turning on this button will help you identify the problem.

1.3.2. Spell Check. Be sure to check the spelling and grammar in your document periodically. If this is not turned on automatically, you can click on “Spelling & Grammar” under the Review tab to launch a review.

To change or update the settings of Word’s Spell Check, go to File > Options > Proofing. Make sure “Ignore words in UPPERCASE” is turned off so that Word will still check the spelling in your headings. In the Proofing dialog box, you can also click on “Settings” next to “Writing Style” and select additional areas of grammar and style for Word to check.

1.3.3. Miscellaneous. While writing and formatting your document, the following is recommended:

- Save your document often and back up with multiple files.
- Set your text to “Left Align.” Justified text is accepted, but will often lead to more formatting problems.
- Check your headings periodically. Make sure the numbering and the formatting for all of them is correct and consistent.

For more information on single-spacing headings, see Section 3. For information on how to use landscape pages for large tables or figures, see Appendix B.

1.3.4. Checklist. Be sure to check the following items before submitting a new version for format checking:

- Heading numbers are bold.
- “SECTION” and “APPENDICES” are written into your TOC.
- Page numbers and headings in TOC have been updated.
- Capitalization and punctuation are consistent in all figures and tables.
- Spacing above and below figures and tables is consistent. If your figure is right before a 2nd level heading, you may need to move your cursor to the blank line after the figure and change that line to single spacing.

This is not an exhaustive list. Please refer to the official Missouri S&T Thesis & Dissertation Specifications for a full list of formatting requirements. If you are having problems with the templates, refer the user guide on Graduate Studies’s website.

2. LITERATURE REVIEW

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2.1. CATEGORY ONE

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2.2. CATEGORY TWO

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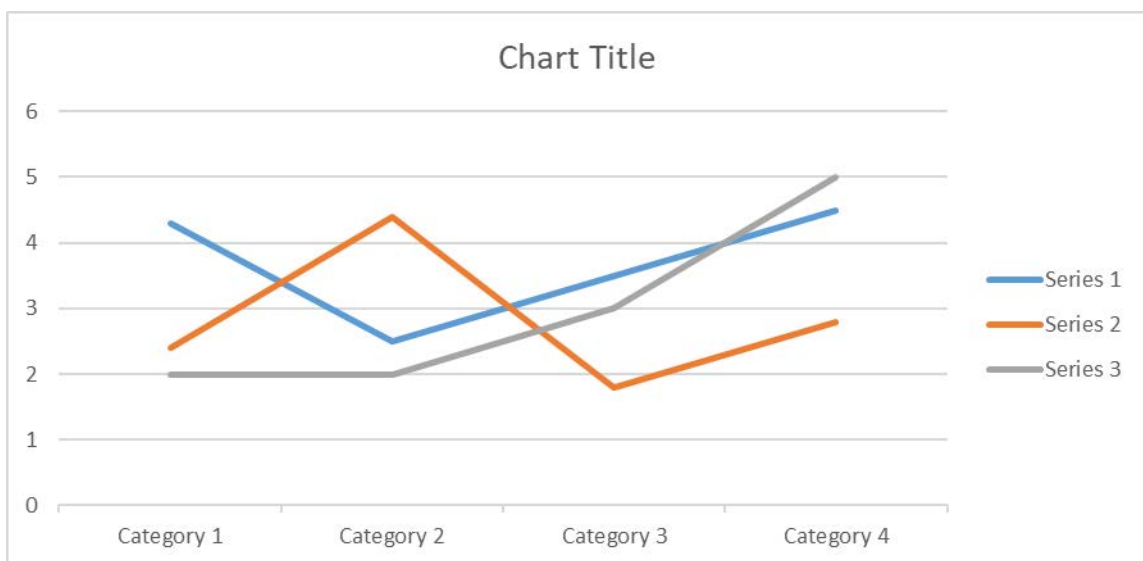


Figure 2.1. This is the first figure under the second 1st level heading in your section writing. Note that the numbering for figures and tables in your section writing differs from the figures and tables in your paper writing.

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PAPER

I. TITLE OF FIRST PAPER THAT WILL BE SINGLE SPACED IF IT IS LONGER THAN ONE LINE AND IT WILL BE NUMBERED WITH AN UPPERCASE ROMAN NUMERAL

ABSTRACT

This is where you will insert text from your published papers or papers intended for publication. Formatting in the PAPER writing differs from the SECTION writing. The word “PAPER” should appear at the top of the page of the first paper. You can use the PAPER/SECTION Heading style for this, but it will not appear in the TOC (you must write it in manually, along with “SECTION” before your document’s introduction and conclusion. Use the styles “Paper Title,” Paper Abstract,” and “Paper References” within your PAPER writing so that they will appear in your TOC appropriately. You may use the same styles for Heading 1–4 that you would use in your SECTION writing.

The numbering within your PAPER writing will restart with each paper. To do this, right-click the number in front of your 1st level heading and select “Restart at 1.” The rest of your heading numbers should change automatically.

Note that the 1st level headings within your PAPER writing do not need to start on a new page like they do in your SECTION writing, but you still need to make sure they have the same amount of space above and below (insert two carriage returns before typing your 1st level heading).

The figures and tables within your PAPER writing will be numbered consecutively (e.g., Figure 1, Figure 2) regardless of which section of the paper they appear in, and the numbering will restart with each paper.

Finally, the heading titles shown in this template are for visual aid only. The title of your headings should match your published paper.

1. INTRODUCTION

1.1. THIS IS A SECOND LEVEL SUBHEADING

The following paragraphs demonstrate how to use a citation and a footnote. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras imperdiet non nisl et consequat. Donec ac ligula velit. Donec et erat bibendum, aliquam justo vitae, condimentum sem. Donec sit amet quam eu nisi viverra maximus nec eget lectus. In non purus ut lectus condimentum gravida. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed ac ex justo. Pellentesque vehicula, lectus non tempor gravida, quam nibh scelerisque est, non pulvinar nisl erat in ipsum. Ut consequat tristique metus, a efficitur dui mattis eget. Praesent eu volutpat diam, vitae sodales nibh. Maecenas in libero sit amet massa finibus egestas at quis turpis.

Donec rhoncus pretium enim, vel malesuada dui feugiat et. Etiam ultricies vel nunc ut venenatis.¹ The footnote is at the bottom of this page. Duis bibendum purus nulla, in pretium diam dapibus eu. Curabitur dolor libero, ullamcorper tempor nisi eu, vehicular.

¹ Here's the text of the footnote.

1.2. THIS IS ANOTHER SECOND LEVEL SUBHEADING

Note that there will always be an extra line of space before 2nd level headings.

Below is a figure for this section. It is Figure 1, reflecting the first figure in the first paper.

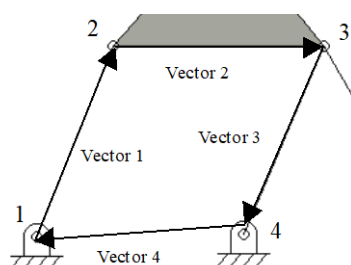


Figure 1. Vector loop decomposition of loop 1.

This is the next line after Figure 1. Keep in mind that you should have the same space above and below a figure, and your page should not begin or end in an orphan line.

1.2.1. Third Level Heading. This is the first 3rd level heading of Section 2. Note the difference between this and the others. Remember that when you unbold the first line of your paragraph next to a 3rd or 4th level heading, do not highlight the last space, otherwise your heading number will be unbolded. If this happens, turn on the Show/Hide button, highlight the paragraph symbol at the end of the first line, and press bold. If this does not work, click on the number and change the entire first line back to your heading style, then try again to remove the bold on the first sentence.

1.2.2. Another Third Level Heading. This is the second 3rd level heading of Section 2. Remember that the first letter of every major word and any proper nouns (such as names of people or places) of a 3rd level heading is capitalized.

The second figure will be named Figure 2 no matter where it appears within the first paper. The first table will be Table 1 no matter where it appears within the paper.

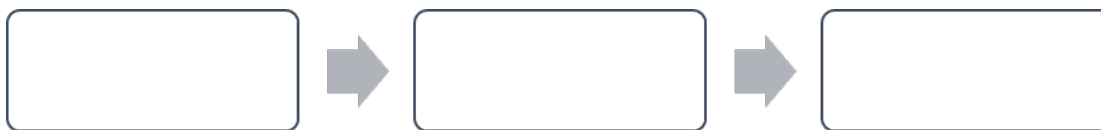


Figure 2. Caption of the second figure in this paper goes here. Make sure that your figures are consistently aligned, either all left-aligned or all centered.

1.2.2.1. Fourth level heading. This is the first 4th level heading of Section 2.

Note the difference between this and the others. Only the first letter of the first word of the heading and any proper nouns (such as names of people or places) are capitalized in a 4th level heading.

Table 1. The title of your first figure in your first paper goes here. Make sure your punctuation and capitalization of all table titles is consistent.

1.2.2.2. Another fourth level heading. This is the second 4th level heading of Section 2. Subheadings beyond the 4th level should be avoided, and bullet points used instead. Section 3 demonstrates how to format titles that are longer than one line and how they should appear in the TOC.

2. THIS IS SECTION THREE WITH A VERY LONG HEADING THAT NEEDS TO BE SINGLE SPACED

2.1. HOW TO SINGLE-SPACE FIRST LEVEL, SECOND LEVEL, AND THIRD LEVEL HEADINGS

Your 1st level headings should automatically be single spaced if they are more than one line long. To single-space a 2nd level heading, highlight the heading and change to single line spacing. Then, place your cursor at the end of the last line of the heading and add 12 pt of “After” paragraph spacing. Then, use the ruler to make sure your second line is properly aligned under the text of first line.

2.1.1. Third Level Heading. Mauris faucibus, turpis vitae maximus imperdiet arcu velit iaculis libero, eu vestibulum sem velit vitae enim. Pellentesque lacus ex, lobortis a congue sit amet, vulputate eu velit.

2.1.2. Another Third Level Heading that Demonstrates Spacing of a Very Long Title. Note that long titles for 3rd and 4th level headings are kept double spaced in text but are still single spaced within the TOC. Below is Table 2.

Table 2. The table title of your second table in your first paper.

2.1.2.1. Fourth level heading. Sed et dui a odio pharetra tempor aecenas pretium, erat vulputate ullamcorper malesuada, ex erat auctor mi, ut pharetra leo velit

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2.1.2.2. Another fourth level heading. In varius molestie leo massa lobortis donec suscipit, mi vel hendrerit dignissim, purus turpis euismod turpis, sodales. Duis bibendum purus nulla, in pretium diam dapibus eu. Curabitur dolor libero, ullamcorper tempor nisi eu, vehicula hendrerit lacus. Vestibulum scelerisque velit quis sagittis tempor. Quisque elit erat, ultrices quis sapien sit amet, dapibus suscipit nulla.

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2.2. ANOTHER SECOND LEVEL HEADING

It is important to remember never to have a Section 1 without a Section 2. Thus, you should not have Section 3.1 without also having Section 3.2.

The captions of tables with titles that are more than one line long should be single spaced, as shown in Figure 3.

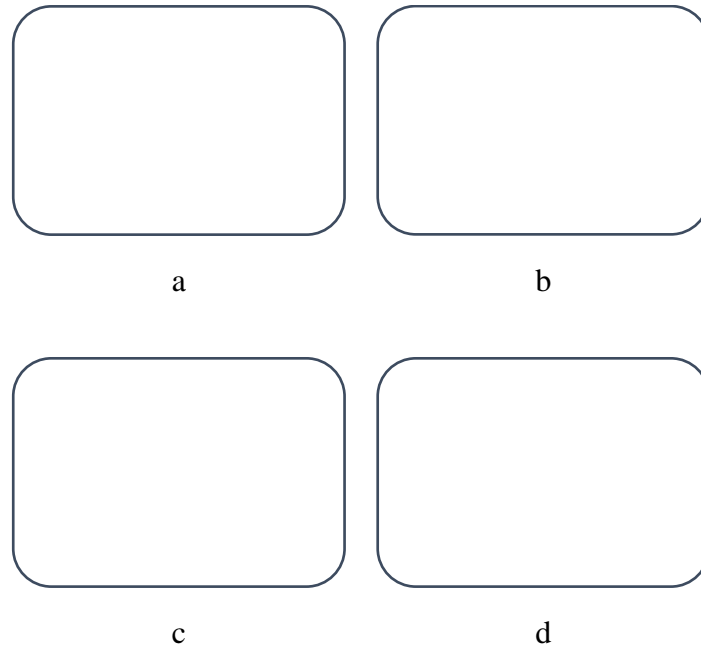


Figure 3. Example of a figure with multiple parts and a very long title that takes up more than one line. a) Caption for Part A goes here. b) Caption for Part B goes here. c) Caption for Part C goes here. d) Caption for Part D goes here.

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II. SECOND PAPER TITLE HERE AND IT SHOULD BE SINGLE SPACED IF IT IS MORE THAN ONE LINE LONG

Student Name, Joe Smith, James B. Brown, Charles R. Jones, D. F. Lang, and Hardy Davidson

Department of Mechanical and Aerospace Engineering, Missouri University of Science and Technology, Rolla, MO 65409

ABSTRACT

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer iaculis volutpat mattis. Quisque sodales consequat nibh. Phasellus aliquam, erat sit amet ullamcorper laoreet, nibh risus vulputate ante, sit amet fringilla quam mauris eu dui. Ut eget viverra dui. Aenean tortor metus, vehicula in blandit id, tincidunt vitae velit. Maecenas ullamcorper dictum condimentum. Suspendisse id feugiat sapien, sit amet tempor nibh. Fusce in est ipsum. Proin rhoncus risus nec gravida finibus. Nunc lobortis purus eu mauris laoreet convallis. Vestibulum at luctus ex. Maecenas arcu ante, bibendum vel pellentesque non, hendrerit sed nisi. Praesent eget nisi nisi. Phasellus euismod libero in sapien tincidunt imperdiet. Sed nec sollicitudin eros. Vestibulum sit amet dignissim.

1. INTRODUCTION

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pretium. Praesent sagittis suscipit erat porta consecetur. Aenean cursus quam fermentum, auctor mauris ut, sodales libero. Proin accumsan lacinia orci, non egestas lorem euismod eu. Maecenas arcu ante, bibendum vel pellentesque non, hendrerit sed nisi. Aenean tortor metus, vehicula in blandit id, tincidunt vitae velit.

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1.1. BACKGROUND

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1.2. OBJECTIVES

Nunc nibh odio, efficitur in gravida vel, scelerisque quis eros. Integer cursus aliquam libero, a condimentum elit finibus in. Suspendisse commodo justo orci, ac lacinia nisi posuere eu. Pellentesque porta sem non leo mollis interdum. Nunc vulputate nunc quis magna hendrerit cursus. Maecenas consequat non purus sit amet aliquet. In ultrices augue et leo imperdiet vulputate. Phasellus eleifend vestibulum elit non venenatis. Phasellus consequat iaculis suscipit.

1.2.1. Third Level Heading. Donec gravida lacus sit amet lorem viverra, nec imperdiet velit imperdiet. Morbi quis justo ac dui pulvinar efficitur. Nulla non rhoncus purus. Quisque vehicula bibendum sapien, sed mollis quam aliquam eu. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Ut eros augue, consectetur vel bibendum vitae, fermentum a neque. Donec dolor tortor, ornare in pretium non, rutrum in lacus. Vivamus lorem nunc, tempor in aliquam eget, sodales a libero. Phasellus vel enim sed purus varius ornare. Fusce sollicitudin elit purus, ut rutrum nunc pharetra sed. Praesent rutrum vulputate tempus.

1.2.1.1. Fourth level heading. Etiam elementum, metus quis hendrerit laoreet, velit purus pulvinar lectus, quis rutrum arcu risus sed justo. Sed tincidunt dolor vel leo suscipit pharetra. Curabitur quis risus a purus volutpat iaculis. In hac habitasse platea dictumst. Aliquam erat volutpat. Maecenas eget cursus orci. Suspendisse ut erat felis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Mauris sollicitudin ut diam in lobortis. Quisque euismod luctus lorem, id maximus ex efficitur quis.

1.2.1.2. Second fourth level heading. Quisque consectetur ac metus id placerat. Praesent facilisis est non risus posuere tempus. Proin maximus, ante vel pulvinar suscipit, nisl nulla dictum velit, eu vulputate nulla leo ac massa. Nulla lacinia semper orci eget commodo. Donec eleifend urna rutrum, pellentesque neque sit amet, pharetra eros. Maecenas egestas purus eu leo interdum, eget faucibus mauris rutrum. In hac habitasse platea dictumst. Ut in velit lobortis, dictum nisl non, hendrerit ante. Phasellus lacinia diam sit amet consequat malesuada. Fusce volutpat, neque a pellentesque mattis, leo dolor dictum turpis, non elementum lacus odio ut dui. Nunc sapien arcu, rutrum vel iaculis in, lacinia nec enim. Aliquam diam felis, semper aliquet dolor eget, varius.

1.2.2. Second Third Level Heading. Phasellus malesuada lobortis blandit. Vestibulum posuere, magna nec imperdiet gravida, nunc nisi tincidunt ante, ac consectetur odio justo ac purus. Etiam et fermentum sem. Sed at massa molestie mauris aliquam posuere. Morbi tincidunt finibus elementum. Proin placerat tellus at magna euismod fermentum. Nam sagittis porttitor efficitur. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Pellentesque vel tristique nulla, non finibus leo. Aliquam eget egestas tellus. Fusce tempus iaculis ipsum in bibendum. Fusce id libero eu diam varius sodales. Morbi id enim pharetra, bibendum est ac, varius nulla.

1.3. RESEARCH SCOPE

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eros imperdiet, in facilisis nulla dignissim. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Ut nec erat sit amet odio ullamcorper.

2. METHODOLOGY

2.1. MATERIALS

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Below is Figure 1, the first figure in the second paper. Figure numbering restarts within each paper. The numbers do not correspond with section number.

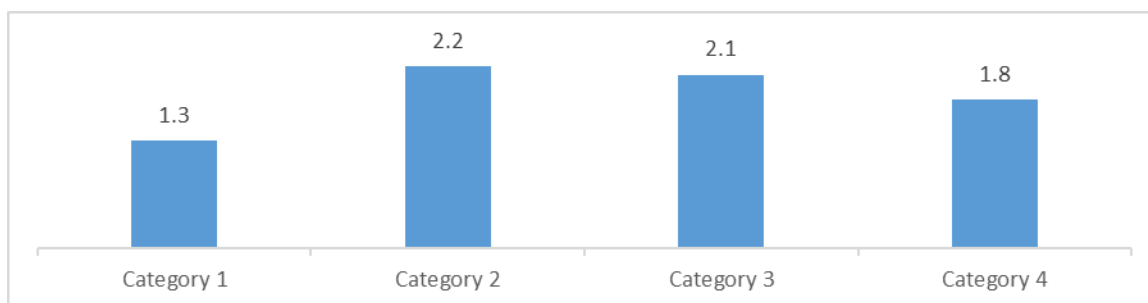


Figure 1. Title of the first figure in the second paper goes here. Notice that the figure numbers in your paper writing are always consecutive, no matter where they appear within the paper. Therefore, this is “Figure 1” just like in your first paper even though it appears under Section 2 in your second paper.

Phasellus malesuada lobortis blandit. Vestibulum posuere, magna nec imperdiet gravida, nunc nisi tincidunt ante, ac consectetur odio justo ac purus. Morbi tincidunt

finibus elementum. Proin placerat tellus at magna euismod fermentum. Nam sagittis portitor efficitur. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Pellentesque vel tristique nulla, non finibus leo.

2.2. PROCEDURE

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Below is Table 1, the first table in the second paper.

Table 1. Table title goes here.

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3. RESULTS

3.1. FIRST HEADING OF RESULTS

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mollis vehicula. Sed lobortis posuere nisi ut accumsan. Morbi nibh purus, tempus a maximus quis, efficitur id enim, as shown in Table 2.

Table 2. Table title goes here and if it spans more than one line it should be single spaced within.

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3.2. SECOND HEADING OF RESULTS

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4. CONCLUSIONS

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Here is an example of another figure, called Figure 3 because it is the third figure within this paper.

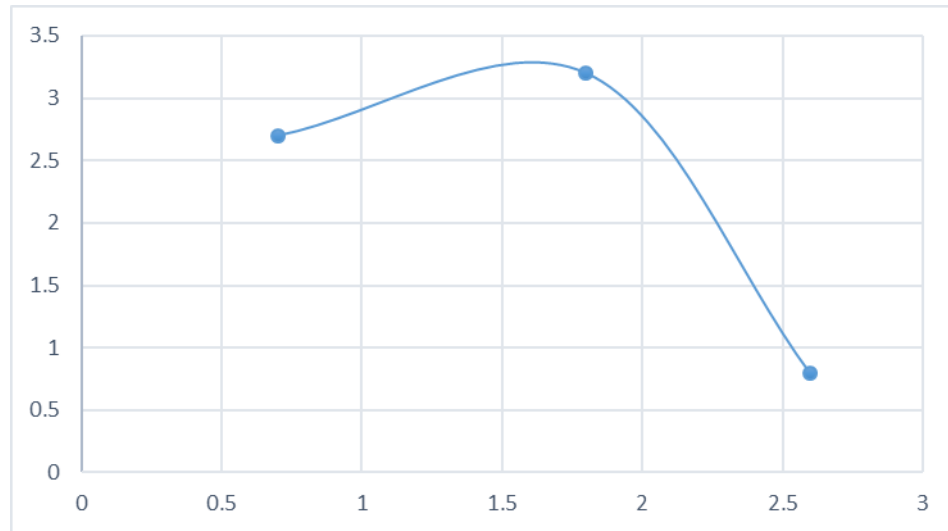


Figure 2. Second figure within your second paper.

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SECTION

3. CONCLUSIONS AND RECOMMENDATIONS

3.1. CONCLUSIONS

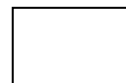
This is where you will resume your SECTION writing. This section is required in the Publication Option. Make sure that your numbering restarts where you left off before the PAPER writing. You can do this by right-clicking the heading number and choosing “Set Numbering Value.” If you 3rd and 4th level heading numbers change, try highlighting them and pressing Ctrl + Space.

3.1.1. Third Level Heading. Ut aliquet lacus ac fringilla convallis. Morbi laoreet at turpis non elementum. Integer condimentum, ligula eu posuere euismod, lectus ipsum viverra elit, ornare nisi libero.

3.1.2. Second Third Level Heading. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Fusce vitae sapien sit amet lacus ornare pharetra vitae sed turpis. Mauris feugiat eleifend accumsan. A Sed elementum sapien vel scelerisque dignissim. Nunc cursus mattis leo, vitae laoreet nisl euismod vitae.

3.2. RECOMMENDATIONS

Fusce nec diam eu felis maximus ultrices. Quisque suscipit mollis nunc id iaculis. Fusce ut iaculis risus. Pellentesque laoreet risus a neque lacinia, ut vestibulum erat lobortis. Integer scelerisque fermentum nulla sed molestie. Sed eu ex vitae ex sollicitudin efficitur. Pellentesque hendrerit non mi quis condimentum.



Click on the rectangle placed over the page number and change Shape Outline to “No Outline” under the Drawing Tools Format Tab. Now you can place the rectangle such that it hides the page number.

APPENDIX A.

TITLE OF FIRST APPENDIX

Put your appendix information here. Note that the format used here is for a T/D that has more than one appendix. The format for this is each appendix must have its own title sheet with the word APPENDIX, in uppercase letters, followed by an uppercase letter and centered on the page. You should then have two blank lines and then the TITLE of the appendix in uppercase letters. Do NOT include a page number on the appendix title page, but it is counted in the overall page count.

For a T/D with a single appendix, the word APPENDIX must be centered at the top of the page and the material should start on the same page. Note that there is NOT a letter distinction for this type. An example of a single appendix is shown on the thesis template. Use Heading 0 for “APPENDIX” and Appendix Title (1) for the title.

If you have multiple appendices, they will have to be manually adjusted in the TOC. The titles will link automatically, but you must type in “APPENDICES” on the line before them, and write in the corresponding letter beside each title.

Page number should not be present on appendix title pages. You can do this by inserting section breaks before and after, then unlinking the page number to previous pages and selecting “remove page number” from the appendix title page. Another easy way to do it is to draw a white rectangle without a border over the page number, as shown in the previous page.

APPENDIX B.

TITLE OF SECOND APPENDIX

You may want to put large figures or tables within your appendix rather than in the middle of your main body. Note that you can turn a page landscape for a figure or table, but your page number should be in the same spot as your other pages when the page is turned back to portrait. In other words, Word's automatic readjustment of page numbers on landscape pages will be incorrect. You will need to manually readjust the page number, or keep the page portrait and turn your figure sideways.

To turn a figure sideways: click the figure, then drag the arrow until it is in the right position. Note that this does not work for tables and graphs. You can insert a table or graph into a text box, turn the text box sideways, and then remove the border, but note that this will likely cause the program to slow if done multiple times. Instead of turning a table sideways, you could also change the text direction within the table.

To turn a page sideways: insert a section break before and after the page. It is easiest to put a box over the current page number (be sure to remove the border) and then insert a text box with the page number written in, then turn the text box sideways where the page number should be. Note that you will manually have to update the page number you have written in if the page location shifts.

Table B.1. Formatting a Landscape Table. a) Turning a Table Sideways (p. 38). b) Turning a Page Landscape (p. 39).

COLUMN A	COLUMN B	COLUMN C	COLUMN D	COLUMN E
ROW 1				
ROW 2	2B	2C	2D	2E
ROW 3	3B	3C	3D	3E
ROW 4	4B	4C	4D	4E
ROW 5	5B	5C	5D	5E
ROW 6	6B	6C	6D	6E

Word automatically places your page number here when turning the page landscape



Table B.1. Formatting a Landscape Table. a) Turning a Table Sideways (p. 38). b) Turning a Page Landscape (p. 39). (cont.)

COLUMN A	COLUMN B	COLUMN C	COLUMN D	COLUMN E
ROW 1				
ROW 2	2B	2C	2D	2E
ROW 3	3B	3C	3D	3E
ROW 4	4B	4C	4D	4E
ROW 5	5B	5C	5D	5E
ROW 6	6B	6C	6D	6E

This page number must be manually updated if page location changes

These are references used with your SECTION writing, **not** those within your PAPER writing. If you did not cite anything within your SECTION writing, remove this page.

BIBLIOGRAPHY

- [1] J. McCardle and D. Chester, "Measuring an Asynchronous Processor's Power and Noise," Synopsys User Group Conference (SNUG), Boston, 2001.
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- [3] <http://www.sce.carleton.ca/faculty/chinneck/thesis.html>. Organizing Your Thesis, June 2004 (date mentioned here is the date on which the website was last visited).

OR

- 1. J. McCardle and D. Chester, "Measuring an Asynchronous Processor's Power and Noise," *Synopsys User Group Conference (SNUG)*, Boston, 2001.
- 2. C. L. Seitz, "System Timing," in *Introduction to VLSI Systems*, Addison-Wesley, pp. 218-262, 1980.
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OR

- ACI Committee 440, Guide for the Design and Construction of Concrete Reinforced with FRP Bars (440.1R-01), American Concrete Institute, Farmington Hills, Michigan, 2001, 41 pp.
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References can be formatted as a numbered list or alphabetically with a hanging indent. References that exceed one line must be single spaced within, so it might be easiest to single-space all text in your references and then add in space between new references (either by manually adding in carriage returns between each reference, or by adding 15 pt of "after" spacing between paragraphs). Remove the blue text and underlines from your hyperlinks.

VITA

Provide information about yourself here. You must include your full legal name, Joseph Edward Miner. For privacy reasons, including your date of birth is not required. All degrees earned and year earned need to be included in the vita. Also include the degree and date of the current degree earned. The vita should be written in past tense.

Finally, remember to include a blank unnumbered flyleaf at the end for your document if you included one at the beginning.

