**Basic Technical Document**

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**Abstract**

*This is a basic technical document template for Engineers. The document makes use of the features that are available in Microsoft Word and is intended as a basic example of a technical report* *for first-year students in engineering*. *The main purpose is to improve the professional quality of documents that are produced at different times during the four years of an undergraduate engineering program*

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# Introduction

This is an introduction, which sets the stage for the work, entices the reader to carry on reading. This chapter explains the importance of the work in a more general context. This is not a very good introduction! Sometimes, an introduction is numbered 1.0, but this has not been done here.

## Related Work

Related Work might not be a separate section and can be part of the introduction. However, usually, it is a separate section and reviews the technical literature of existing work in an organized and relevant manner. We won’t worry about this too much for now and will move on to the main body of the report.

# Main Subject heading

This is the first main body subsection and should be a good one! It should follow on nicely from the introduction. It should be the logical place to begin, which will depend on the purpose of the document.

We will create some intermediate subsections in chapter 3, to practice including a hierarchy in a Word document. As already stated, there should be 3 levels or less in the hierarchy. When creating your own documents, you should obviously take your time and think of a clear and logical order for the presentation of your ideas.

This logical organization will be reflected in the numbering and ordering of your subsections and the subsections under them. Generally, you should always make sure that you have no singleton/’orphan’ subsections. There should be at least two of them. Otherwise, this information doesn’t really need to be in a separate subsection.

# Second main subject heading

This chapter has a lot of text, but has no subsections.

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## Subject sub heading for second main subject

This subsection logically follows or sits within the second one, based on the organization plan for the document. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas convallis maximus lacinia. Integer ligula nisi, pellentesque non imperdiet in, condimentum quis neque. Suspendisse blandit maximus tincidunt. Sed eu pharetra libero, a porttitor est. Phasellus accumsan, dui sit amet accumsan rhoncus, nisi ex rhoncus felis, at interdum erat mi ac purus. Quisque fringilla erat sit amet turpis pulvinar, id pulvinar purus molestie. Cras ultrices venenatis odio, nec egestas erat lacinia ac. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Donec dictum, tortor id condimentum vestibulum, odio risus tempus felis, ac congue elit urna et lacus. Duis vel tortor felis

## Another subheading beneath the second main heading

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## Yet another subheading

If this does not exist, then the first subsection material can be moved up into the third main subject heading. However, it has been defined here. Therefore, we are OK.

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Here is some text that refers to a figure about a monkey or ape [Figure 1]. By placing the graphic object in a drawing canvas, it is easy to add whitespace or shift the image around. This might be done to add space or to add subsequent images later.



Figure 1: Monkey or Ape?

vehicula eros, id porta ipsum nunc cursus turpis. Sed dignissim ipsum a felis venenatis, a scelerisque ante aliquam. Quisque urna massa, hendrerit et ornare quis, lacinia vitae diam. Proin id nisi lorem. Vivamus eu odio magna. Phasellus fermentum lorem non ligula euismod, ut sollicitudin felis consectetur

Here is a sentence with a reference [2]. If a reference is not cited like this, it should probably be removed from the document. Don’t pad a document with unnecessary references, but include lots of relevant ones, instead.

### First subsection

This is some random text, but long and rambling enough that the reader knows it is a sentence and can’t possibly be a title.

Here is a paragraph with a table reference (Table 1). Note that this reference will automatically update if upstream tables are added and the table number changes.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

Table 1: This is the table title

### Second subsection

This is also some random text, but still long and rambling enough that the reader knows it is a sentence and it is unlikely to be confused with a title

### Third subsection

So much text, but we keep generating more random garbage text until it is still long and rambling enough that the reader knows it is a sentence and not a title.

# Conclusions and Recommendations

The conclusions and recommendations must have *already* appeared in the main body. This is not a place to summarize the whole document though. This is where the main conclusions are re-iterated. Sometimes, suggested future work can be added here too or as a separate section (unusual, but done here anyway).

# Future Work

This section can be more speculative, but should follow on logically from the data presented in the document.

# References

1. J. Joggis, “The main thing about bees”, Bee Weekly, V.1. N.4, November 2014, pp. 23-45
2. Robot, “The book is all I kept”, 1990, published by Random company, New York. . ISBN 1234567890
3. Peter Campbell, Michael Groves, and Dan Shepherd. Soliloquy: A cautionary tale. ETSI 2nd Quantum-Safe Crypto Workshop, 2014. Available at https://docbox.etsi.org/Workshop/2014/201410\_CRYPTO/
4. S07\_Systems\_and\_Attacks/S07\_Groves\_Annex.pdf