UNIVERSITY OF SOUTHAMPTON Electronics and Computer Science

A group design project report submitted for the award of Master of Engineering

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ABSTRACT

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Declaration

Acknowledgements

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Chapter 1

Introduction

1.1 Location of files

Chapters go in chapters folder. Figures in images folder. No content must be written elsewhere. All content must lie in chapters files'. We may need to create files for sections, if chapters get too big.

1.2 Writing Content

You must not write live on Overleaf! I cannot emphasize it enough! Download the project as a git repo from the options on overleaf. Then write what you need to write, compile locally, then once everything compiles nice and well, put it on overleaf.

1.3 Formatting

End each paragraph with a double backslash always.

1.3.1 Labeling

Make sure you label 'every component' with a label like above. Chapters will have labels as chap:name, sections as sec:name and so on.

1.3.1.1 Naming labels

Use all small alphabets in labels, separated by dash (-).

This way we can refer any Chapter, Section, Table, Figure, sub components etc.

1.3.2 Referring Components

You should do bold-face for reference as follows - **Section 1.3.1.1** is about how to name labels and **Chapter 1** is the introduction.

1.3.3 Figures

You should place the figures in the figures folder. They should be transparent background in most cases, named all lower cases with dashes. You must label them as fig:name



Figure 1.1: Normal figure

All figures must have captions as well. Sub figures may be left caption less, as long as the entire figure has caption.

You can use minipage to insert subfigures as done in **Figure 1.4**. This is the recommended way. Otherwise you can use **Figure 1.3**

The subfigure package has caused me problems before, I suggest against it. Similarly, you can use **Figure 1.6** to have side by side caption or text. You can refer to subfigures as well like **Figure 1.5a** I suggest against it. Use two minipages - one side normal figure, other side text for the figure.



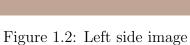




Figure 1.3: Right side image

Figure 1.4: Subfigures using minipage



(a) Left side image



(b) Right Side Image

Figure 1.5: Side by side figures using subfigures

Figure 1.6: Side label with possibly a large amount of text. This is how you would write it



1.4 Adding Tables

Tables must be labeled with usual labeling convention. Also the use of multicol package allows for centering text in table fields and merging of fields as shown in the example below.

Referring to a table example: As show in **Table 1.1**.

	Та	able Title Example	
id	Column Heading	Column Heading	Column Heading
1	Field 1,1	Field 1,2	Field 1,3
2	Field 2,1	Field 2,2	Field 2,3
3	Field 3,1	Field 3,2	Field 3,3

Table 1.1: My Table Example

When a larger table is needed that would fit better on a landscape page, the rotating package can be used and a sidewaystable defined as shown in the example on the next page: **Table 1.2**.

		Sideways Table Title Example	
ji	Column Heading	Column Heading	Column Heading
\vdash	Field 1,1	Field 1,2	Field 1,3
2	Field 2,1	Field 2,2	Field 2,3
3	Field 3,1	Field 3,2	Field 3,3

Table 1.2: My Sideways Table Example

1.5 Code Listing

You can add code snippets as seen in **Listing 1.5** or **Listing 1.5** full width or mini page listing.

```
1
  Name.prototype = {
2
     methodName: function(params){
3
       var doubleQuoteString = "
           some text";
       var singleQuoteString = '
4
           some more text';
5
       // this is a comment
6
       document.createElement('h3')
       $('#system').append("This
           looks great");
8
       return false;
9
10 }
```

Listing 1.1: My Javascript Example



Table 1.3: Right side image

```
Name.prototype = {
1
2
     methodName: function(params){
3
       var doubleQuoteString = "some text";
4
       var singleQuoteString = 'some more text';
5
       // this is a comment
       if(this.confirmed != null && typeof(this.confirmed) ==
6
          Boolean && this.confirmed == true){
7
         document.createElement('h3');
8
         $('#system').append("This looks great");
9
         return false;
10
       } else {
         throw new Error;
11
12
13
     }
14
  }
```

Listing 1.2: JS Code Snippet

1.6 References

References are written in references.bib file. I will demo you personally about how to write references. Each reference has a key and you can refer it like this [1].

Chapter 2 Literature Review

Bibliography

[1] R. Belk, "You are what you can access: Sharing and collaborative consumption online," *Journal of Business Research*, vol. 67, no. 8, pp. 1595 – 1600, 2014.

Appendix A
 Gantt Chart

TEST

Appendix B Team Member Contribution