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Bachelor of Science in Computer Science with Honours The University of Bath May 2019

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Signed:

Abstract

Your abstract should appear here. An abstract is a short paragraph describing the aims of the project, what was achieved and what contributions it has made.

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Acknowledgements

Add any acknowledgements here.

Introduction

This is the introductory chapter.

1.1 Example Section

Like all chapters, it will have a number of sections

1.1.1 Example Subsection

 \dots and sub-sections

Example sub-subsection

... and sub-subsections.

Table 1.1: An example table

Items	Values
Item 1	Value 1
Item 2	Value 2

1.2 Another section

Another section, just for good measure. You can reference a table, figure or equation using \ref, just like this reference to table 1.1.

1.3 Example lists

1.3.1 Enumerated

- 1. Example enumerated list
 - a nested enumerated list item
- 2. Second item in the list

1.3.2 Itemized

- Example itemized list
 - a nested itemized list item
- Second item in the list

1.3.3 Description

Item 1 Example description list

Item 2 Second item in the list

Literature Survey

This is the chapter for your Literature Survey.

You will wish to cite authors like (?) or (?). Alternate commands are used to cite ? as a noun, or cite ? work possessively, or add text to the citation, (e.g. ?).

If these citations do not compile correctly, ensure you have the Harvard package installed. You can pick up the Harvard package in the zip file of the dissertation template files you downloaded.

Requirements

If you are doing a primarily software development project, this is the chapter in which you review the requirements decisions and critique the requirements process.

Design

This is the chapter in which you review your design decisions at various levels and critique the design process.

Implementation and Testing

This is the chapter in which you review the implementation and testing decisions and issues, and critique these processes.

Code can be output inline using \lstinline|some code|. For example, this code is inline: public static int example = 0; (I have used the character | as a delimiter, but any non-reserved character not in the code text can be used.)

Code snippets can be output using the \begin{lstlisting} ... \end{lstlisting} environment with the code given in the environment. For example, consider listing 5.1, below.

```
Listing 5.1: Example code

public static void main() {

System.out.println("Hello_World");
}
```

Code listings are produced using the package "Listings". This has many useful options, so have a look at the package documentation for further ideas.

Results

This is the chapter in which you review the outcomes, and critique the outcomes process. You may include user evaluation here too.

Conclusions

This is the chapter in which you review the major achievements in the light of your original objectives, critique the process, critique your own learning and identify possible future work.

Appendix A
 Design Diagrams

Appendix B

User Documentation

Appendix C

Raw results output

Appendix D

\mathbf{Code}

D.1 File: main.py

```
# read capture frame by frame
                                                                ret , frame = video_capture.read()
import cv2
                                                                if ret:
                                                                    # display current frame
                                                                    cv2.imshow('Frame', frame)
video_capture =
    cv2. VideoCapture('../recordings/recording_circle_red_right.mov'# user exit on "q" key press
                                                                    if cv2.waitKey(25) & 0xFF = ord('q'):
# video_capture =
    cv2. VideoCapture('../animations/output/circle_blue_right.avi')
                                                                        break
                                                                    break
if not video_capture.isOpened():
    print ("Error_opening_video_file")
                                                            # tidying upq
# read video until completion or user exit
                                                            video_capture.release()
                                                            cv2.destroyAllWindows()
while video_capture.isOpened():
```