TITLE OF YOUR THESIS
ON SEVERAL LINES IF NEEDED

A DISSERTATION
PRESENTED TO
THE ACADEMIC FACULTY

BY

Your Name

IN PARTIAL FULFILLMENT
OF THE REQUIREMENTS FOR THE DEGREE
DOCTOR OF PHILOSOPHY IN THE
SCHOOL OF MECHANICAL ENGINEERING

Georgia Institute of Technology

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TITLE OF YOUR THESIS
ON SEVERAL LINES IF NEEDED

Approved by:

Prof. Olson Johnson, Advisor
School of Myths
Georgia Institute of Technology

Prof. Samuel Johnson
School of Computer Science
Georgia Institute of Technology

Prof. Gabby Johnson
School of Mechanical Engineering
Georgia Institute of Technology

Prof. Howard Johnson
School of Public Policy
Georgia Institute of Technology

Prof. Olson Johnson
School of Electrical Engineering
Georgia Institute of Technology

Prof. Lili von Schtupp
School of Nuclear Engineering
Georgia Institute of Technology

Date Approved: January 11, 2020

It is my belief that nearly any invented quotation, played with confidence,
stands a good chance to deceive.

—Mark Twain

To Ted Striker,
whose valour and bravery
shall not be forgotten

Acknowledgements

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SUMMARY

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Chapter 1
Introduction and Background

1.1 About this Template

This template is an adaptation `gatechthesis_latex` template (17 January 2017 update) and `ut-diss-2`. I've made some (mostly) aesthetic changes, but I believe it should conform to the requirements liseted in the Georgia Tech "Graduate Thesis/Dissertation Guidelines & Procedures" (April 2015 Update). It is by no means an official template, though. So as stated in the license file, you can use, change, distribute, sell it however you'd like, provided

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2. You hold none of the authors liable for any results of such use.

1.2 Basic Elements

This section talks about common components (figures, tables, and equations), and how they're included in LaTeX documents. Much better and more complete resources are available elsewhere, but hopefully this enough to get started.

1.2.1 Figures

Figures are included with the `figure` environment. They are floats, which means that they will appear wherever LaTeX thinks is best based on the surrounding text. You can tinker with this positioning, but the details are out of scope. A quick example will give most of the salient details. The following code will give the results in Fig. 1.1.
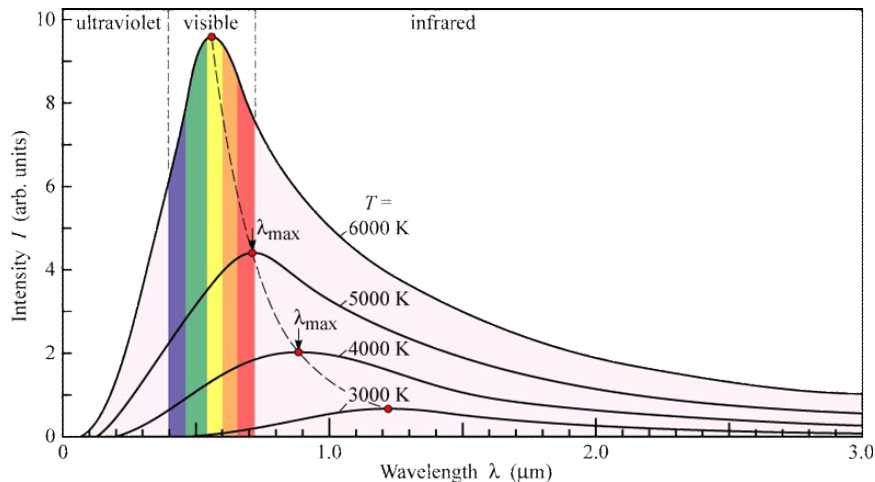
FIGURE 1.1: This is a long caption. It's too long for the table of contents, so we specify a short caption in the brackets.

```
\begin{figure}
  \centering
  \includegraphics[width=0.75\linewidth]{figures/exampleFigure.png}
  \caption[Short Caption]{This is a long caption. It's too long
       for the table of contents, so we specify a short caption
       in the brackets.}
  \label{fig:IntensityVsWavelength}
\end{figure}
```

Note the use of a short caption in brackets in the `\caption` command. This lets us have a long explanatory caption, without keeping our List of Tables compact (compare the caption of Fig. 1.1) with how it's listed on page viii.

1.2.2 Tables

1.2.3 Equations

I recommend using the `align` environment exclusively for equations. It's virtually identical to `equation`, but allows you to have multiple lines and specify where you want them to—well—*align* with each other. Compare the following

```
\begin{equation}
  a^{2} + b^{2} = c^{2}
\end{equation}
```

```
\begin{align}
  a^{2} + b^{2} = c^{2}
\end{align}
```

$$a^2 + b^2 = c^2 \tag{1.1}$$

$$a^2 + b^2 = c^2 \tag{1.2}$$

1.3 Cross-Referencing

One of the chief advantages of LaTeX is how easy it makes cross-references. Note that we often want to refer to a figure or equation. Sure, we could number them by hand, but it we insert or delete

Items are referenced using `cleveref` and `hyperref` packages. For example, here's an equation

$$i\hbar\frac{\partial}{\partial t}\Psi = \left[\frac{-\hbar^2}{2m}\nabla^2 + V\right]\Psi\,. \tag{1.3}$$

Equation (1.3) should be referenced as so.

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Table 1.1: This is an example Table.

x	$f(x)$	$g(x)$
1	6	4
2	6	3
3	6	2
4	6	2

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Chapter 2
Technical Approach

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.1 Section

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.1.1 Example Subsection

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.1.1.1 Example Subsubsection

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.2 God, *Another* Section???
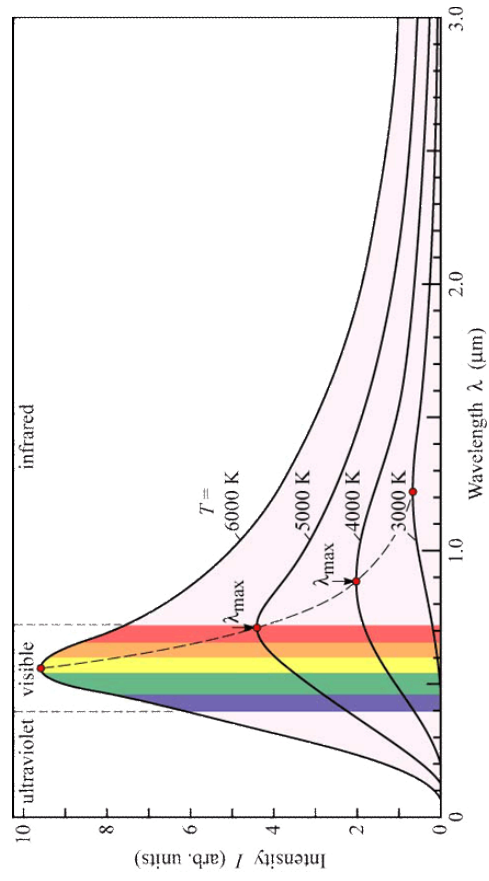
FIGURE 2.1: This is another example Figure, rotated to landscape orientation.

Chapter 3
Results

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Chapter 4
Discussion

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Chapter 5
Conclusion

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Appendices

Appendix A
Experimental Equipment

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$$a^2 + b^2 = c^2 \,. \tag{A.1}$$

A.1 Section of Appendix

Appendix B
Data Processing

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Bibliography

[1] B. W. Kernighan and D. M. Ritchie, *The C Programming Language Second Edition* (Prentice-Hall, Inc.) (1988).

[2] G. P. Burdell, *Myths and Their Origins Plus Some Extra Words to Make the Title Really Long and Extend to the Next Line* (Real Books, Inc.) (2017).

Vita

Vita may be provided by doctoral students only. The length of the vita is preferably one page. It may include the place of birth and should be written in third person. This vita is similar to the author biography found on book jackets.