



UNIVERSITY OF ABERDEEN

Title

EG59XX Individual Project in XXX Engineering

By

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STUDENT NUMBER

*A dissertation submitted in partial fulfilment of the requirements of the award of
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Abstract

Write your abstract here...

Contents

List of Figures

List of Tables

Chapter 1

Introduction

1.1 Section title goes here

You can try some formatting commands

1.1.1 Subsection if you need

Chapter 2

Literature review

Chapter 3

Methodology

This chapter discusses methodology of the work

Chapter 4

Conclusions

Appendix A

Matlab code

Description of Matlab code

A.1 Matlab code to solve differential equation

```
1 N = 10; % Number of grid points
2 x = linspace(0,0.5*pi,N); % Setup the x grid
3 dx = x(2) - x(1); % Set Delta x on a uniform grid Set Delta x
  on a uniform grid Set Delta x on a uniform grid Set Delta x on a
  uniform grid
4
5 y = zeros(N,1); % Pre-allocate the solution vector
6 y(1) = exp(-1); % Set the initial condition
7
8 for i = 1:N-1 % Loop over each point in the grid
9     xhalf = 0.5*(x(i) + x(i+1));
10    yhalf = y(i) + 0.5*dx*y(i)*sin(x(i));
11    y(i+1) = y(i) + dx*yhalf*sin(xhalf);
12 end
```