



PROJECT REPORT

Applying Bisection Method
to Solve Nonlinear Equations

Ardy Billianto

11.02.0031

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FACULTY OF COMPUTER SCIENCE

SOEGIJAPRANATA CATHOLIC UNIVERSITY

Jl. Pawiyatan Luhur IV/1, Bendan Duwur, SEMARANG 50234

Telp. 024-8441555 (hunting) Web: <http://www.unika.ac.id>

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APPROVAL AND RATIFICATION PAGE

PROJECT REPORT

Applying Bisection Method to Solve Nonlinear Equations

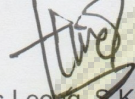
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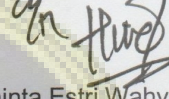
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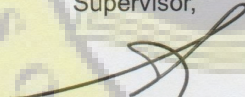
Hironimus Leong, S.Kom., M.Kom
NPP : 058.1.2007.273

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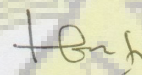
Shinta Estri Wahyuningrum, S.Si, M.Cs
NPP : 058.1.2007.272

Supervisor,



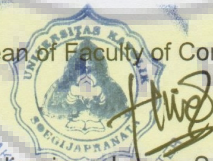
Suyanto Edward Antonius, Ir., M.Sc
NPP : 058.1.1992.116

Examiners,



Rosita Herawati, ST., MIT
NPP : 058.1.2004.263

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NPP : 058.1.2007.273

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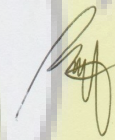
I, the undersigned:

Name : Ardy Billianto

ID : 11.02.0031

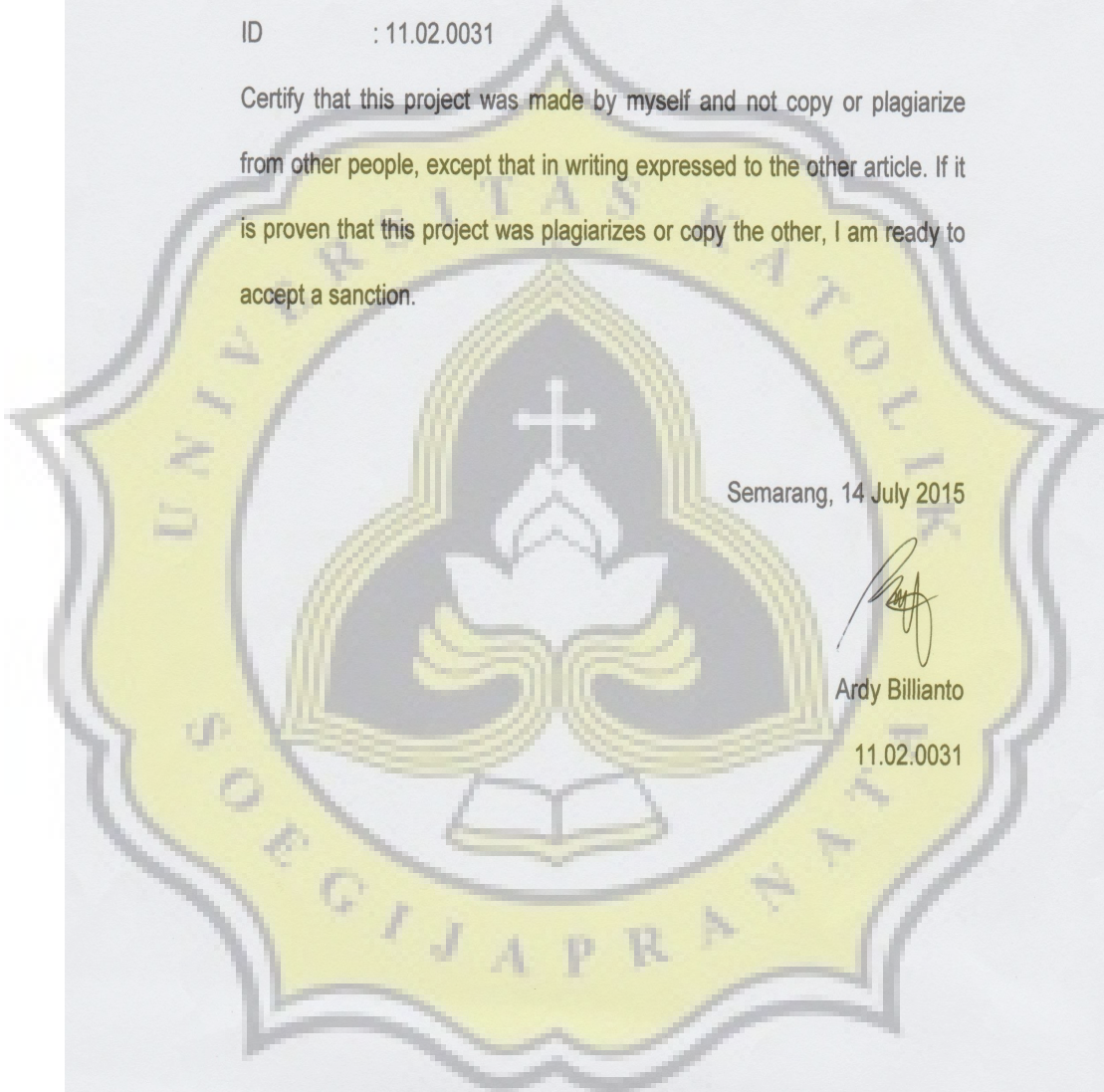
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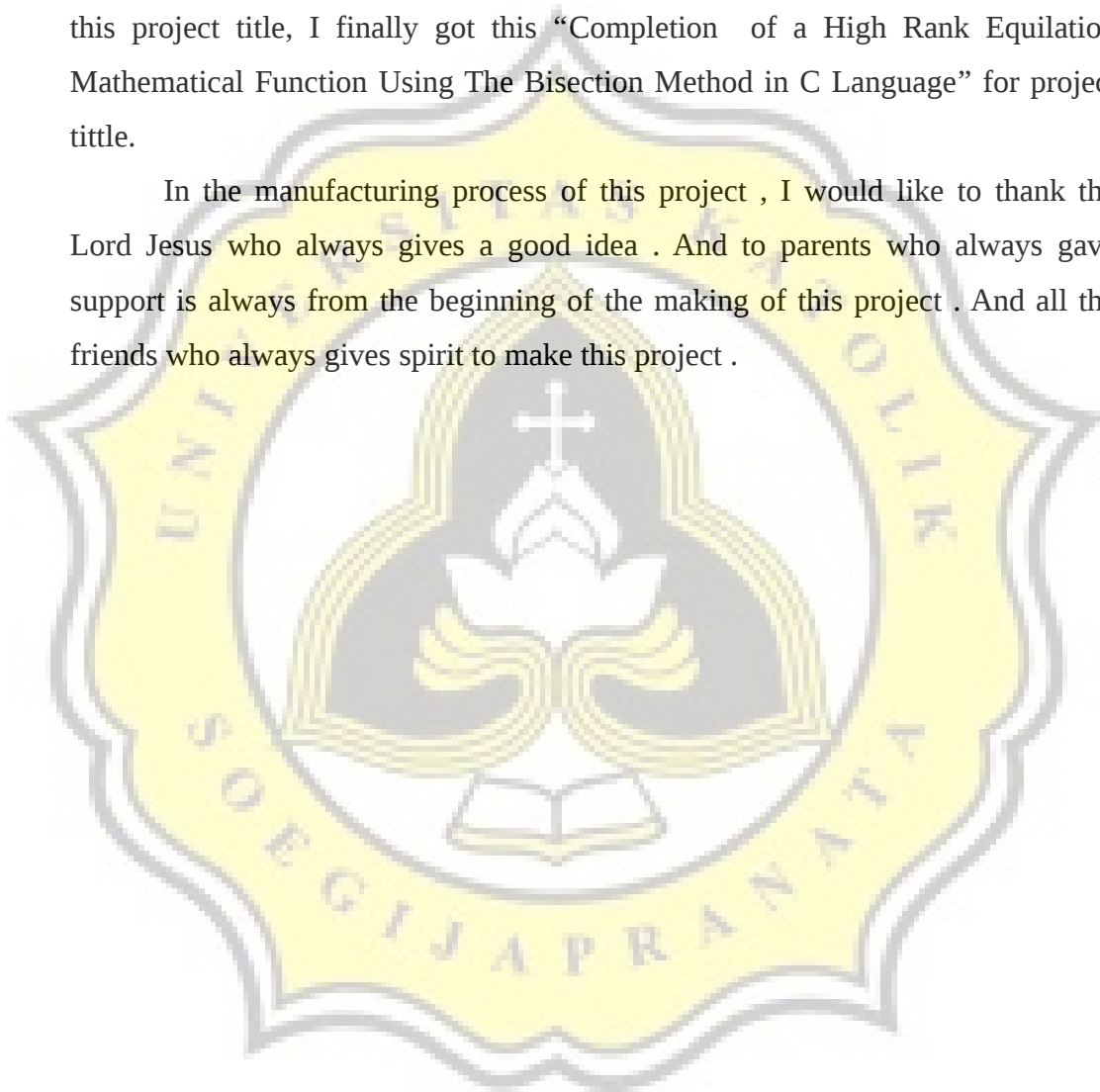
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FOREWORD

Since I study in informatics engineering department I really excited to learn many subjects of programming. After 4 years studied, I had the opportunity to finish my project as a graduation requirement. Even I need many weeks to find this project title, I finally got this “Completion of a High Rank Equilation Mathematical Function Using The Bisection Method in C Language” for project title.

In the manufacturing process of this project , I would like to thank the Lord Jesus who always gives a good idea . And to parents who always gave support is always from the beginning of the making of this project . And all the friends who always gives spirit to make this project .



PREFACE

The final report is intended to describe the flow of the program work on this thesis. A program created in this thesis about the completion of a mathematical formula to find an accurate result. This report is divided into six chapters to explain in detail.

In the first chapter describes the basic picture and the ultimate goal of this final project , and also includes a limited scope to issue the final work. In the second chapter describes some of the data structures and algorithms that will be used at the end of the project implementation . In the third chapter discusses the groove thesis and explain the analysis , design and other stages of the making of this thesis .

And the fourth chapter gives an overview diagram of the case, flow charts and functions in this thesis. For the fifth chapter describes the implementation at the end of this task with parts shaped with an explanation of the program code. And there is also a test of the final project with the end result and penjelasanya. And in the sixth chapter is the last chapter that describes the ultimate goal of making of this thesis and some describe which could be developed by the end of this task.

ABSTRACT

High rank equation is a function to search for the roots of an equation results . In the high rank of the equation can be solved by some means or methods . The method can be used to solve the equations of high rank is a numerical method , graphical method , bisection method , secant method and Newton-Raphson method .

The method to be used is the bisection method. Bisection is a concept to calculate the result of the roots of equation of High Rank. Bisection method is also called the method divided by two. So how to find the end result is to use the middle value or the result of the division of two values. This method is used because it is easier and quicker to understand but longer in the calculations .

Bisection method implementation is done by using the c language. The end result of this process is to find the value bisection x average to find a point x is close to zero

Keywords : Bisection Method, High Rank Equation.

TABLE OF CONTENT

FOREWORD.....	iv
PREFACE.....	v
ABSTRACT.....	vi
Chapter I.....	1
Introduction.....	1
1.1. Background.....	1
1.3. Objective.....	1
Chapter II.....	2
Literature Study.....	2
2.1. Bisection.....	2
2.2. Iteration.....	2
2.3. Data Structure.....	3
Two Dimensional Array.....	3
Chapter III.....	5
Planning.....	5
3.1. Research Metodology.....	5
3.2. Project Management.....	6
Chapter IV.....	7
Analysis and Design.....	7
4.1. Analysis.....	7
4.1.1. Flow Chart.....	7
4.2. Design.....	9
4.2.1. Function.....	9
Chapter V.....	10
Implementation and Testing.....	10
5.1. Implementation.....	10
5.2. Testing.....	16
Chapter VI.....	19
Conclusion.....	19
6.1. Conclusion.....	19
6.2. Further Research.....	19
References.....	20

TABLE OF FIGURE

Figure 1. Two Dimensional Array.....	3
Figure 2. Flow chart.....	7
Figure 3. Function.....	9
Figure 4. The first test results.....	15
Figure 5. The second test results.....	16
Figure 6. The third test results.....	17



TABLE OF TABLE

Table 1. Project Management.....	6
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