HIGHER TECHNICAL INSTITUTE ELECTRICAL ENGINEERING DEPARTMENT DIPLOMA PROJECT

DEVELOPMENT OF AN EDUCATIONAL PROGRAM FOR TRANSISTOR OPERATION USING VISUAL BASIC

E/1083

BY: METTIS AMORIAS

JUNE 1997

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING COURSE

DIPLOMA PROJECT

DEVELOPMENT OF AN EDUCATIONAL PROGRAM FOR TRANSISTOR OPERATION USING VISUAL BASIC

E/1083

国星 1997

BY: METTIS ANDREAS

S VOSKARI

JUNE 1997



DEVELOPMENT OF AN EDUCATIONAL PROGRAM FOR TRANSISTOR OPERATION USING VISUAL BASIC

r would like quittance soù an

would also 1999 https://www.com

BY: METTIS ANDREAS

PROJECT REPORT SUBMITTED TO THE DEPARTMENT OF ELECTRICAL ENGINEERING OF HIGHER TECHNICAL INSTITUTE NICOSIA - CYPRUS

IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DIPLOMA OF TECHNICIAN ENGINEERING IN ELECTRICAL ENGINEERING

JUNE 1997

PROJECT SUPERVISOR: Mr. S. VOSKARIDES



ACKNOWLEDGMENTS

I would like to thank my project supervisor Mr. Sotos Voskarides for his helpful guittance and assistance during the execution of this project.

I would also like to thank my friend Savas Lazarides for his helpful advice and help throughout the project.

Finally I would like to thank my family for their help and financial support.

CONTENTS

HOW TO USE THE PROGRAM The use of command buttons at the main menu Using the main menu of a specific topic	Page 1 2-3 4
NFORMATION ON HOW VISUAL BASIC ENVIRONMENT AND CONTROL OBJECTS ARE USED FOR THE PROGRAM Introduction to visual basic main visual basic components Components of the visual basic environment The visual basic menu options Keeping track of your project files Creating a project directory File that make up a project files Creating a project directory File that make up a project files Day out the user interface Properties Setting properties Witing out the user interface Properties Witing a code Running a project Testing Project Changing Properties at run time Showing and hiding forms Setting properties for multiple controls The Menu design window Using msgbox to create simple dialog boxes The Msgbox statement The Msgbox statement The Msgbox function	5 6 7-9 10 10-11 11 11-12 12-13 13 13 13-14 14-15 16-17 17 17 17-18 18 18 18 19 20-21 21 22 22-24 24-25
FUNTAMENTAL PROGRAMING CONSTRUCTS Statements Procedures Methods Properties Events Operators Conditional statement The select case statement Syntax of Do and For Loops Using the Exit Statement to Exit A loop or procedure	26 26 27 27 27-28 28-30 30 31 31-32 32-33

	34 34
Variables	34
	34-37
	37
	37-38
	38
Intrinscic contants	39
	39
	39
	40
Private Module - Level Variables	40-41
Public Module Level Variables	41
Scope of symbolic constants	41-42
	42
GENERAL PROCEDURES	43
Introduction to general procedures	43
Sub Procedures	43
Calling a sub procedure	44
	44
Writing general procedures	45
LOGIC OF THE PROGRAM	46-72
	73
0	73
0	74-82
Using a fax	82-83
ANIMATION	84-89
THE SEARCH BUTTON	90
	90-91
	91-92
	92-93
CREATION OF RIGHT CLICK HELP	94-96
USEFUL TIPS	97-99
IMPORVING THE PROGRAM	100-102
CONCLUSIONS	103
REFERENCES	104