

**HIGHER TECHNICAL INSTITUTE**  
**CIVIL ENGINEERING DEPARTMENT**  
**DIPLOMA PROJECT**

**PRODUCTION OF DRAWINGS  
WITH THE AID OF AUTOCAD**

This project is submitted  
in partial fulfillment of  
the award for the  
Diploma  
of Technician Engineer  
of the  
Higher Technical Institute

**C/765**

**PRODUCTION OF DRAWINGS BY:**  
**ERACLEOUS CONSTANTINOS**

**JUNE 1996**

## PREPARATION OF DRAWINGS WITH THE AID OF AUTOCAD

### SUMMARY

The subject of this project was to :

- 1) Discuss in general the applicability of the computer in the production of drawings.
- 2) Get familiar with a CAD package.
- 3) To produce drawings with the help of the AutoCAD.

AutoCAD gives the same kinds of menus and dialog as other programs that are running on the system. Because AutoCAD looks and feels like other programs, it is easy to learn and remember, even if we don't use it daily. Also AutoCAD gives friendly dialog boxes that simplify interact with the program, pop-up menus that provide instant access to hundreds of drawings and editing options, and pull-down menus that take us quickly to the tool we want.

**CONTENTS**

Acknowledgments.....I  
Summary.....II  
Chapter 1 : **INTRODUCTION**.....1  
Chapter 2 : **CAD HISTORY**.....2  
Chapter 3 : **EQUIPMENT REQUIREMENTS**  
    3.1 A basic Computer system.....3  
    3.2 Monitors.....3  
    3.3 Printer or Plotters.....4  
    3.4 Pointing Devices.....5  
Chapter 4 : **AUTOCAD'S OPERATING SYSTEM**  
    4.1 The AutoCAD's screen.....8  
    4.2 Starting a new drawing.....11  
        2.1 Coordinates.....11  
        2.2 Setting Units.....11  
        2.3 Setting Limits.....12  
        2.4 Grid.....12  
        2.5 Snap.....13  
    4.3 Basic Drawing Commands.....14  
        3.1 Line.....14  
        3.2 Circle.....14  
        3.3 Arc.....14  
        3.4 Polyline.....16  
        3.5 Donut.....16  
        3.6 Ellipse.....16  
        3.7 Polygons.....16  
        3.8 Insert.....16  
    4.4 Advanced Commands.....17  
        4.1 Move.....17  
        4.2 Copy.....17  
        4.3 Array.....17  
        4.4 Offset.....17

## **PREPARATION OF DRAWINGS WITH THE AID OF AUTOCAD**

---

4.5 Trim.....	18
4.6 Erase.....	18
4.7 Scale.....	18
4.8 Change.....	18
4.5 Utility Commands.....	19
5.1 Help.....	19
5.2 New.....	20
5.3 Save.....	21
5.4 Open.....	22
5.5 Plot.....	23
4.6 Special Commands.....	24
6.1 Layers.....	24
6.2 Blocks.....	25
6.3 Hatch.....	26
6.4 Dim.....	27
Chapter 5 : <b>INTRODUCTION IN 3D DESIGN</b> .....	<b>28</b>
Chapter 6 : <b>CONCLUSIONS</b> .....	<b>29</b>