

COMPUTER STUDIES DEPARTMENT

USER MANUAL

**ANALYSIS, DESIGN & IMPLEMENTATION
OF A PORTABLE X-11-OSF-MOTIF USER INTERFACE**

By

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**“ANALYSIS, DESIGN, &
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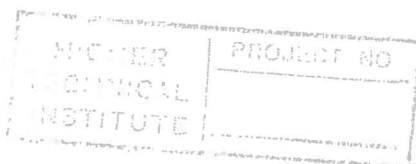
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*Dedicated to all those who believe in
dreams and fight to make them happen...*

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PREFACE

This booklet is a User's Manual submitted with the Analysis, Design and Implementation of the project CS/146, in partial fulfillment of the award of the Higher Technical Institute (HTI) Diploma in the field of Computer Studies for the year 1996 (June). The subject of the project is the analysis, design and implementation of a portable X11-OSF-Motif User Interface to cover all interactions needed for the Advance Surface Modeling System (ASMOS). Such interactions include reading from and writing in files, geometrical transformations, visualization of calculated data in graphical geometrical form, and so on. Furthermore, this human-machine interface is to be linked to and tested with Advance Surface Modeling System (ASMOS).

In addition, the project is to provide On-Line Help, Warnings and other messages to guide the user while accessing the system easily and fast. Also, certain security measures, such as passwords and user IDs, is to be encountered in the development of the User Interface (UI), to protect the system from unauthorized access and allow users with different levels of authorization to access the various sections of the system. In addition, it provides the development of this user's manual to facilitate users to use the interface.

This User's Manual is a fully explanatory and an easy to use guide for all functions of the CS/146 Project, i.e of the Graphical User Interface developed for all interactions of the ASMOS system. It can be used as a reference for learning how to use and interact with the system, in a clear and easy way, whenever the user wants to practice in using it.

As already said, besides this booklet, a complete documentation book containing the Analysis and Design of the system is also available and can be found at the Higher Technical Institute's Library.

The Project this User's Manual is referred to is the project CS/146: **“Analysis, design and implementation of a portable X11-OSF-Motif User Interface for all interactions needed for the Advance Surface Modeling System (ASMOS).”**

CHAPTER 1

INTRODUCTION

1.1 How to use this book

The User's Manual is divided into five chapters including this introduction.

Chapter 1: This chapter is an introduction to the various topics this booklet deals with, and gives an introductory description of the system.

Chapter 2: Deals with the Installation of the system, the Hardware and other requirements of the system.

Chapter 3: Deals with the operation and the different features provided by the system. The user is instructed how to navigate through the system, and how to use the File Menu options.

Chapter 4: Explains how to apply various transformations (Rotation, Translation, Scaling) to the object displayed, through the Transformations Menu options.

Chapter 5: Explains how to apply the desired path and parameters for each tool - explicitly Nuages option, Prepros option, Repros option, Repros2visu option, and Repros2tetra option - as these are available through the system Options Menu option.

Chapter 6: Explains how to get on-line help for all interactions and various options available to the user throughout the system.