

PREFACE

This project is concerned with the development of a data acquisition software package using the LPA11-K twin microprocessor module and the PDP11-34 host computer, both manufactured by the Digital Equipment Corporation, Maynard, Massachusetts.

Chapter 1 gives an introduction to the field of data acquisition and a general overview of this project.

Chapter 2 gives the definition of the project. It contains the objectives, a possible solution and method used, of arriving at this solution.

Chapter 3 gives the general hardware and software used in this project. It also gives the advantage of the LPA11-K over a normal interrupting device.

Chapter 4 gives the explanations of the programs used to achieve the objectives of the project.

Chapter 5 gives the constraints and limitations of this project.

Chapter 6 gives the flowcharts for the programs written.

Chapter 7 gives the results and recommendations of this project.