

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING COURSE

DIPLOMA PROJECT

DEVELOPMENT OF PLC ON
PACKING MACHINE

E. 1224

ONNAB AHMAD

JUNE 2000

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Ahmad Onnab

Summary

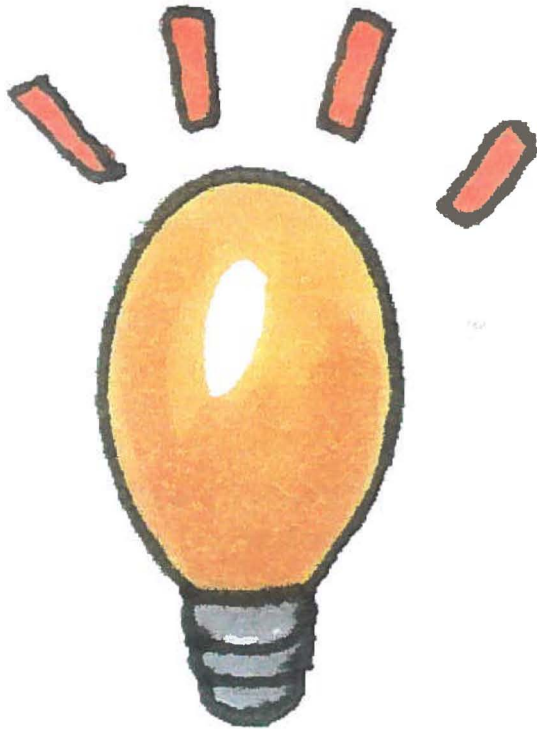
Title: packing machine control using programmable logic controllers (PLC's).

Author: Onnab Ahmad

The report investigates the programming capabilities of a “ladder language” .It also demonstrates the characteristics and the functions of the programmable controllers. Then an application program using the programmable controllers for the Control of a packing machine is made. Finally the program analysis, comparison and costing with conventional methods are given.

The application program is based on the Allen-Bradley SLC 500 programmable controller's instruction techniques and the PLC of HTI.

Chapter 1
Introduction to P.L.C



The main objective of this project is to develop an application program using the programmable controller for controlling a packing machine.

Thus a "ladder diagram" had been constructed by using the "ladder language" to control the machine through the (PLC).

And last but not least is display the main purpose of this report is to provide a basic and outlined knowledge on PLC's and their applications.

Moreover it intends to get the reader familiar by dealing with a certain application and giving the explanation of the program and an overall costing of the system.

And more particularly the whole project is divided into five chapters, and each one subdivided into subsections.

In chapter 2 for instant we'll discuss about the capability components of the PLC and each one what it's related to the performance and the results individually.

And the other chapter will be explaining more and more about the PLC's and at the last chapter we'll see an application scheme, which can show as, example for one of the capabilities of the PLC's.

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