

**HIGHER TECHNICAL INSTITUTE**

**ELECTRICAL ENGINEERING  
DEPARTMENT**

**DIPLOMA PROJECT**

**TRAFFIC SIGNALS SCHEME USING  
MICRONET CONTROLLER**

**E.1403**

**EPIFANIOS CONSTANTINOU**

**JUNE 2006**

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PROGRAMMABLE LOGIC  
CONTROLLER**

**E.1403**

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# Introduction

The purpose of this project was the development of a sequence control scheme of traffic lights using MicroNet Controller.

The objectives of the project were:

- To investigate the characteristic and capabilities of programmable controllers
- To develop an application program for the control of traffic lights and test it on a simulation unit which must be constructed.

As there are a wide range of rules and functions that can be considered in the traffic regulation, no specified limitations are imposed, except hardware limitations.

The project is subjugated to several essential rules of safety. Thus, the work specifications were prepared after consultation with an Engineer responsible for the traffic lights of Nicosia area and in accordance to their specification for micro controller based in traffic signals controller.

The project is divided into several chapters. The first chapter is referred to general information and work specifications. The second chapter presents the familiarization and the basic program. Finally, the third chapter presents the main program and its explanation.