SEDAYA INTERNATIONAL COLLEGE

FACULTY OF ENGINEERING AND INFORMATION

TECHNOLOGY

SCHOOL OF ENGINEERING

FINAL REPORT

FINAL YEAR ENGINEERING PROJECT 2002

Project Title : MULTI DATA ACQUISITION SYSTEM DESIGN (BURGLAR ALARM SYSTEM)
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ABSTRACT

This is the final report of the project entitled ‘Multi Data Acquisition System (DAS) Design’. The report shows the details about the research, design and implementation work done from May 2002 to November 2002. This project can be divided to two parts that are hardware and software.

This data acquisition based project is implemented as burglar alarm system that will detect any intrusion, based on the 4 sensors used and then relays the information to the PIC16F84 micro controllers. The first micro controller scans the keypad while the second micro controller scans the sensors and responsible for alarm activation.

A microcomputer is used as a monitoring tool. The second micro controller will also send signals to the microcomputer through parallel communication port LPT 1 via RS 232 connectors, so that any intrusion can be monitored from another location. MPLAB and MPASM software are used as programming language for the micro controllers while for the microcomputer, Microsoft Visual Basic 6.0 is chosen as the programming language and acts as a GUI (graphical user interface) for this project.