Computer Interface Laboratory

Design Issue:
"Interfacing the micro-computer for monitoring and controlling purposes."

Objectives:

1- To introduce the basic principles and ideas of the theoretical, software, and hardware requirements for using a micro-computer for the purposes of monitoring, data acquisition, and control.

2- Design and implementation of a micro computer based monitoring and control system making use of the parallel port.

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Staff: Mr. Ali Majid, and Mr. Mohammad Rahman
Year: 2011-2012
Typical Report
Computer Interface Lab.
Design Labs.
November, 2011

In this report, you will include topics listed below about computer interfacing and its applications. Before starting the writing of the report, we strongly recommend reviewing of the lectures, examples and exercises for the associated topics.

Topics to be Included in your Report:

1- Design sub
2- Design objectives
3- Introduction
4- Digital computers applications and specially micro-computers(few lines)
5- Ways of connecting a micro-computer to the outside world(no more than 2 pages)
6- Hardware, software, and theoretical requirements for using micro-computers for data acquisition, monitoring, and control.(few pages)
7- Connecting the computer to the outside world through the parallel port.(as much as necessary)
8- Case studies (you should cover all the cases you dealt with during the lab. cycle)
9- Conclusion (as much you think necessary).

You should submit your typical report before the specified due date.