SCHOOL OF ENGINEERING

EN312 ENGINEERING PROJECT FINAL REPORT

ELECTRONIC NOTICE BOARD FOR SCHOOL OF ENGINEERING

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Abstracts

An Electronic Notice Board (ENB) for School Engineering system is presented. This project report is about application of microprocessor, which can be interfaced to the computer using hardware and software for displaying messages and information. The hardware module aim to created by using 16 units of 8x8 dot matrix with interfacing to the computer using a serial cable. To monitoring the data system in the project was applied Visual Basic Programming software, which will utilize Graphic User Interface (GUI). This user-friendly software is to receive signals from the computer and display different characters on the hardware module.

The ENB is made up of microprocessor 16F877A, eight units of 4-to-16 demultiplexer, one unit of 2-to-4 demultiplexer, 128 units of PNP transistor and one unit of NOT gate. When the above components are successfully constructed and operate in the proper way as desired, the output will be displayed from the key-in data.

The advantages of this project are low cost and friendlier maintenance. The dot matrix is constructed using connector, therefore it can easily be changed by just plug it off without any messy procedure. Drawback for this project is the brightness of LEDs is not suit for outdoor purpose.

Overall, this project is suits for the small- medium size company and organization due to the low cost budget. Using the ENB can produce effective promotion and marketing to public.