

**FACULTY OF ELECTRICAL ENGINEERING**

**MARA UNIVERSITY OF TECHNOLOGY  
BUKIT MERTAJAM  
PULAU PINANG**

**PROJECT II  
KEU380**

**TITLE OF PROJECT  
'LED ATTENTION GETTER'**

**DATE DUE: 21 MARCH 2003**

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## ABSTRACT

**Project 2 (KEU380)** is a subject compulsory for student in semester 6 of Diploma in Electrical Engineering. This subject has 3 credit hours-non-core subjects and an each group has two members. Actually, this subject is continuation of subject KEU280 (Project 1) while in semester 5.

In this project, we have to do project titled **LED Attention Getter**. This project consist of string of 16 LEDs, only one of which is lit or ON at any given time. The lit LED moves back and forth at a set frequency in “Night Rider Fashion.” This circuit requires 9V dc powered.

## ACKNOWLEDGMENTS

With the name of Allah, the most Gracious and Merciful, selawat and salam to our prophet Nabi Muhammad S.A.W. and his relatives and friends. All the praises to Allah, the Only God Who creates all things that Allah want, for giving us opportunity to complete this project successfully.

**ALHAMDULILLAH**, praise to Allah, we at last successfully completed this project. We would like to share our deep sense of gratitude and appreciation for those who had gave us their hand in completing our project titled “**LED ATTENTION GETTER**” successfully. Firstly, we would like to thank our Supervisor, Mr. Anuar bin Mohamad @ Ahmad for his consistent at his advises and guidance as well as prevision of his valuable time, encouragement and patience during the period of completing this project. As supervisor, he teaches and given us so many useful ideas and knowledge in planning and preparation for this project. He also tells how to do this project to our group. As student, we feel happy to do this project in Mr. Anuar’s controlled.

Then, we would like to thank our friends who are gave moral support during this project. From this project, we get much knowledge about how to analyze the circuit. We also study how to do this project in teamwork. Although we have many problems with our project but with help from Mr. Anuar, we can solve it. We know **Project 2** (final project) is very important subject for Electrical Engineering students especially Mara Technology of University students. Specially thanks also to our lovely parents and family for their help and supports in making this project an interesting and valuable experience. Last, not least, we would like to apologize whatever shortcoming found in this project and we would be very grateful for any criticism and suggestions for future improvement.

**Thank you very much.**

## LIST OF COMPONENT

NAME OF COMPONENT	SPECIFICATION	UNITS
IC	SN74LS154(demultiplexer)	ONE
	SN74LS193	ONE
	SN7400	ONE
	LM555(timer)	ONE
RESISTOR	100K OHM	ONE
	1K OHM	ONE
	470 OHM	ONE
CAPACITOR	0.33 $\mu$ F	ONE
LIGHT EMITTING DIODE	SUPER LIGHT LED (RED)	16

## VALUE OF COMPONENT

Name of component	Specification	Units	Price per unit (RM)	Total (RM)
IC	SN74154 (demultiplexer)	1	4.60	4.60
	SN74LS00	1	1.80	1.80
	SN74LS193	1	2.80	2.80
	LM555 (timer)	1	1.30	1.30
Resistor	100K ohm	1	0.05	0.05
	1K ohm	1	0.05	0.05
	470 ohm	1	0.05	0.05
Capacitor	0.33 $\mu$ F	1	1.50	1.50
Light emitting diode	Super light LED (red)	16	0.30	4.80
<b>Total Price (RM)</b>				<b>16.95</b>

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