



**FACULTY OF ELECTRICAL ENGINEERING
UNIVERSITI TEKNOLOGI MARA**

FINAL REPORT OF DIPLOMA PROJECT

EDUCATION

AUTOMATIC SCREEN PROJECTOR

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STUDENTS

MUHAMMAD HANIF BIN CHE HASNI	2011654528
MUHAMAD AMINUDDIN BIN MUSTAPHA	2011846596
MOHD SYAFIQ BIN NASIRUDIN	2011893044

SUPERVISOR

MADAM RINA BT ABDULLAH

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ABSTRACT

This paper presents the design and development of a prototype Automatic Screen Projector detector that involves both hardware and software development. This Automatic Screen Projector is able to scroll up and scroll down the projector screen automatically when detect the light of LCD projector compare to the old way to pull down and pull up the projector screen. It wasting a lot of time to set up. This project can help people to save time and it also become more practical. The main parts of the automatic screen projector consist of sensor, the PIC 16F876a microcontroller and DC motor. The algorithm is developed and implemented with micro-C. The performance of the Automatic Screen Projector validated with the simulation circuit using proteus 8 profesional and the results and findings from conducted experiment on the prototype. Besides that, it is also aimed to be reasonable device so that it can be able to help to increase the level of education students and lecturers.

Keywords— PIC 16F876a microcontroller, micro-c, Proteus 8 Profesional.