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UNIVERSITI TEKNOLOGI MARA

PULAU PINANG

FINAL REPORT:
ELECTRONIC VOTING MACHINE

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ABSTRACT

Electronic voting systems were developed, in part, to make voting easier and to boost voters' confidence in the election process. This is because this method is trusted by voters to be secured, reliable, inexpensive and efficient. In more traditional voting system which is by using ballot paper and voting boxes, this method can be easily manipulated by any irresponsible such as presiding officers and other individuals. For example, during voting counting procedure, these individuals may as simple as changing the vote count to their liking. Therefore, electronically voting procedure was studied, research, developed and improved from time to time to meet their target of creating the most secure and reliable voting system that is free from any sabotage and fraud. To dive into the research of creating an electronic voting system, our aim in this project is to be able to design a low cost, as possible, prototype on the electronic voting machine itself by using microcontroller of PIC18f2550 type with the capability of storing the data even when there is no supply connected to the device. Therefore in case of any sabotage in the fore of shutting off the supply, the PIC will not lose its current voting data. The same data will be stored when the supply is turn back on. This feature is one of the most important features that must be had in the every electronic voting machine. The prototype consist of a liquid-crystal diode (LCD) that displays the candidate competing, several push button for voting and controlling the voting procedure, and counting votes and deciding the most highest vote count for each candidate to determine the winner. As observed, there are several application on the electronic voting machine itself such as used for voting purpose at any required place, used in general election for choosing candidates represent people at various stages, can be used in school, college students union elections, and lastly finding the general opinion of people on various i

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