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FINAL REPORT OF DIPLOMA PROJECT

SMART DUSTBIN

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ABSTRACT

The project is designed as a system that can help reduce the burden on us in reducing our burden and helped manage the clean house or our vicinity. This project has sensors that detect an individual that is close to the trash can and the lid opens by itself, to give opportunities for individuals to throw trash into the bins. Next, buzzer will trigger when the lid which are not able to touch the surface of the limit switch. This system will bring awareness to consumers that the trash is full and also the opportunity thrown away. A key component of this project is the infrared sensor, the motor solenoid, and PIC16F877A. Algorithm was developed and transferred to the PIC through PROTHEUS. Simulation has been exhibited through PROTHEUS as confirmation to the development of the project.