

# Automatic Open/Close Trash Bin



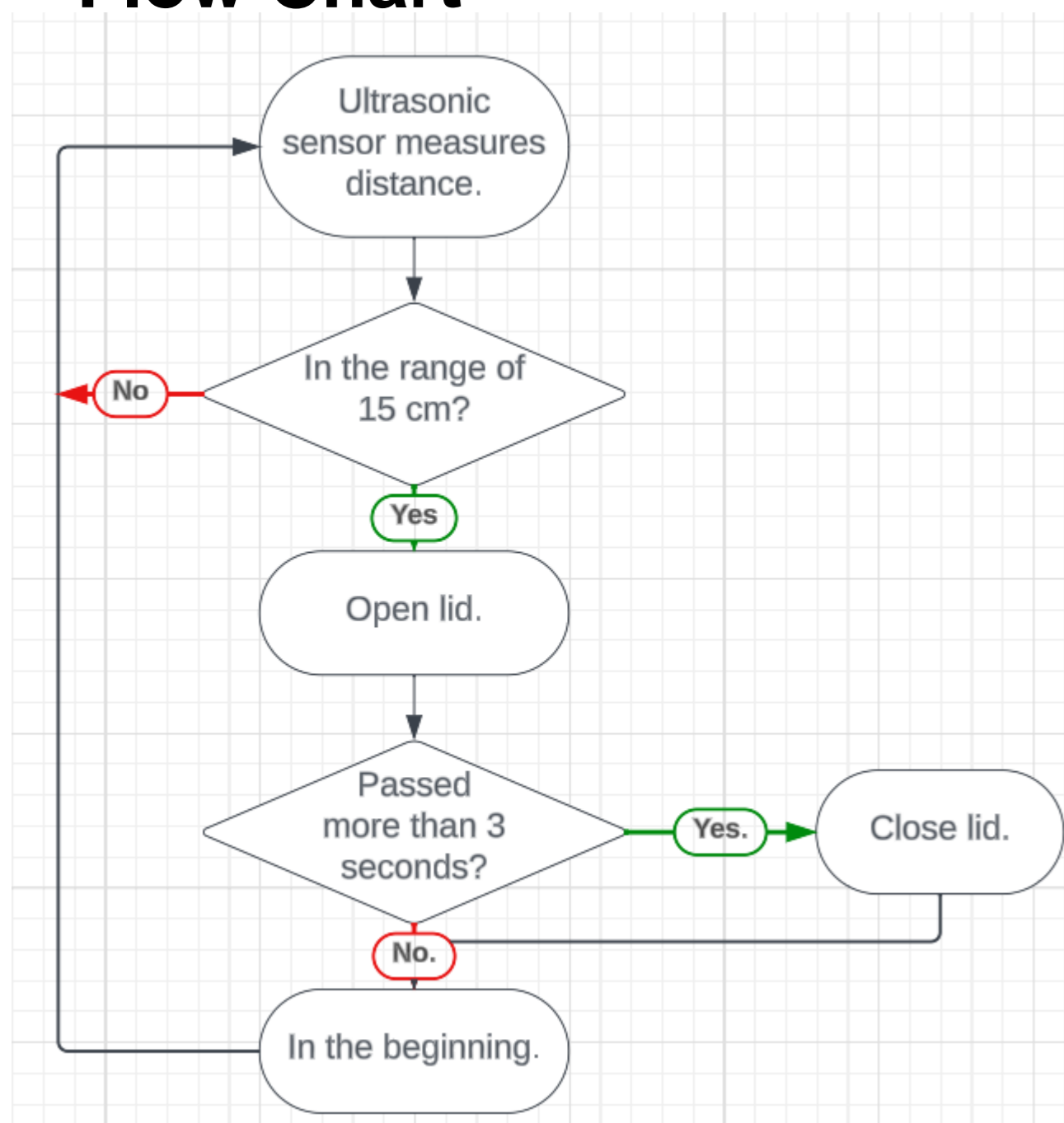
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## Abstract

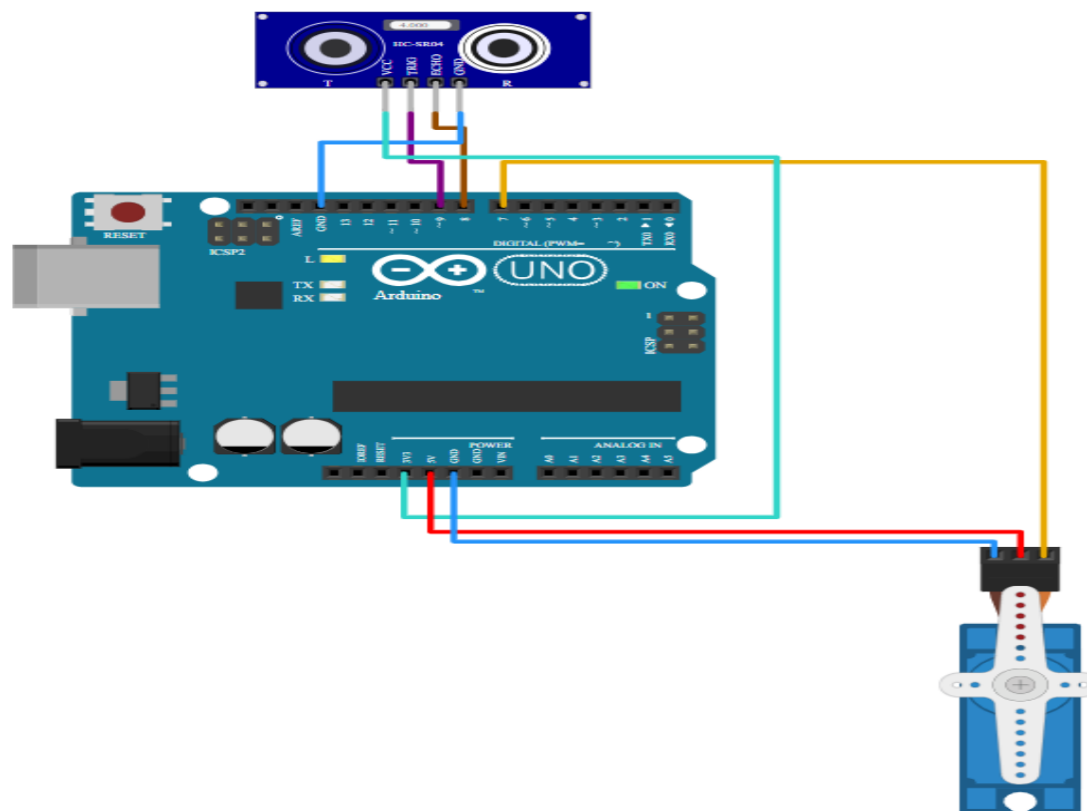
This project presents the design and implementation of an Arduino-based automatic open/close trash bin system. The system utilizes an Arduino microcontroller, ultrasonic sensors, and a servo motor to automate the lid of the trash bin.

## Flow Chart



## Main Components

- Ultrasonic Sensor
- Arduino Uno R3
- Servo Motor



## Conclusion

In conclusion, after I have done all the electrical and mechanical work, the system is ready and properly working. The idea behind “Automatic open/close trash bin” was to open lid of the bin without touching it. So, the goal of this project was to develop an electronic system to open the lid of the bin when it detects an object close to it. And close after a certain delay.

## References:

- <https://www.youtube.com/watch?v=ns83hHWI-t4>
- <https://www.instructables.com/Automatic-Trash-Bin/>
- <https://transmitter.ieee.org/makerproject/view/8c49a>
- <https://ai.thestempedia.com/project/diy-smart-trash-bin/>