

# SNOW CLEANING ROBOT

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## ABSTRACT

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In the modern world, automatic robot is very useful to help human kind to achieve certain works without doing by oneself. The usage of automatic robot is increasing due to the advance of technology and sciences. An automatic robot also enable human to avoid danger and can save a lot of time for getting a job done.

The title "Snow Cleaning Robot" is to produce a prototype of an automatic snow cleaning car which can bypass obstacles and complete the cleaning task by the fixed length and width of the road. In this project, the main part is the design of the programming to control the movement of the car and achieve the road cleaning job. A snow cleaning robot is used in countries where will snow. To prevent vehicles stuck in the snow on the road, a snow cleaning robot is used to shove off the thick snow and makes the road clean.

The automation movement is controlled by the PIC16F877A microcontroller where the microcontroller will get the signal from the IR sensor and hence changing the original movement of the motor through the motor driver and prevent the collision with the obstacles on the road.