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## Design and Development of Automatic Floor Cleaning Machine

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Abstract: A Cleaning is the essential duty in our day to day life. Cleaning of floor is a very important for our health and reduces the human power. Robotics is a valuable educational tool that introduces students to a variety of different engineering disciplines such as electrical, computer, and mechanical engineering. In order to prove that this work can be accomplished an autonomous Floor robot was designed and built and describes the development of a Floor cleaning machine robot prototype. There is a 2"x3" circuit board used for the body of our robot, and the total size of the robot is about 6 inches in width and 8 inches in length. The height of our robot is about 4 inches. A mini portable Floor cleaning machine is attached inback of the chassis and we put the IR sensors on the front of the chassis that we used to detect the obstacles when the robot is moving. Most of the domestic robots are entering in the people daily life, but it is immature in the market. Automatic floor cleaners are nothing new, but they all share a common problem. They all are too expensive for what they do. Today, we will make an Automatic Home cleaning Robot that only costs a small fraction of the ones in the market

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