

FINAL YEAR PROJECT REPORT

TITLE: HAND CONTROLLED ROBOT

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ABSTRACT

The name of our project is hand controller robot. Our project is divided in two main parts the glove part and the main robotic platform.

The Robot is a 4-Wheel Drive Differential Drive, i.e. for turning, the robot will use tank mechanism. To turn left, left wheels will move in reverse direction and right wheels will move in forward direction. And to turn right, left wheels will move in forward direction and right wheels will move in reverse direction.

There are 8 light emitting diodes mounted on our glove. 4 light emitting diodes for four directions left, right, forward and reverse and 4 light emitting diodes for obstacles near four wheels. The Robot can detect obstacles up to 120cm. On robotic platform there is a camera which gives the video of the location where the robot moves.

The aims of our projects are we are using our project for spy purpose due to high mega pixel camera and our robot is also b used as a toy car and the third and most important aim of our project is that we are using it for the rescue purpose in the areas of accidents where the rescue worker or police cannot enter due to obstacle or small entrance. As we are engineers and it is our responsibility to introduce the modern technology in our country and it is our duty to save the life of the people we decided to make this robot more helpful so that everyone can get advantage from it.

Major conclusion that we get from our project is that our project is ready to be used as a spy purpose and from further research we notice that if we make the body of our project bullet proof, hence it is expensive but it will help our army and can be used on boarder for spy purpose to protect the nation. And other conclusion is that our project is ready to use a spy video maker. And from the research we conclude that if we use night vision camera then it can b used in night as well.

In our robot we use two batteries one in the glove and one in the robotic platform to run the main boards. These batteries are not changeable if we use chargeable batteries then it can save the cost of buying the batteries again and again.

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