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5-FUNCTION REMOTE  
CONTROLLER

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## Abstract

The remote control car has long time ago invented, however the remote control car is not so popular among our society. It maybe because the cost of the car is too high and the product is not so attractive consider to the price. Nowadays the remote control car is like a trend in our community, the demand of the remote control car is increasing from time to time. This make the cost for purchasing the remote control car is decreasing, however we found that there are some problems with the remote control car that on the market today, we found that the remote control car produced by the manufacturer is actually in same frequency, so we have come up with an idea in building up the receiving and transmitting circuit which the frequency is different compared to the manufacturer's standard. As we know that it is so important to have difference frequency so that there will be no collision in driving the remote control car. We will build the circuit that have five functions such as forwarding, backward, turning left, turning right and turbo powering the car. The standard toy car can be modified to increasing the speed of the toy car by adding some relay and changing the higher torque motor of the car.

## Acknowledgement

Firstly, we would like to thank the Maha Suci Allah for giving us strength and long life, the one who prepared us all the facilities needed as a human being and gives us the chance to do and finish our project, the Five Function Remote Controller. We would like to give special thanks to our School Of Engineering that has matter us to make this project as one of the course of our study. This is the step for us to open our mind for our future career, as we always wanted to be, as an engineer. A million of thanks to our supervisor Encik Roslan bin Seman who truly support, help and guide us in any situation that we face in doing our project. To all our respected lecturer from part one until part six who teach us to be an engineer, who open our mind and given us a lot of knowledge that we need before becoming an engineer. Never forgotten our beloved parents who truly believe and support us in whatever we do and always pray for our success in all fields that we involved. Also lot of thanks for our friend's who always gives us advice or great opinion. We also appreciated the entire author whose wrote books that we used as a referenced in order to finish our project. Thanks to who ever that supports, helps and encouraged us that we forgot to mention their name here.

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## Introduction

The idea to take the Five Function Remote Controller as our project born when we realised that the demand for the toy (remote control car) is increasing in our country. The remote control car is famous among our society now, the track for playing this toy (remote control car) are built everywhere in our country nowadays. Compared to the last past years, the toy (remote control car) is something odd to our society, the price to owned one toy (remote control car) is too high making it not worth to owned, only rich kid or man play this toys. Today everybody can own it; the price is decreasing because the demand is increasing from time to time, moreover the government gives a lot of support by making a lot of space for us to play the toy (remote control car) in our free time. From the history and our research we found that we can makes some money if we design the circuit of the toy (remote control car) ourselves. It was a brilliant idea and we received full support from our supervisor. By designing the circuit we can understand better about the operation of the toy (remote control car), because of this we are not only can sell the product also we can repair the toy (remote control car) if there are trouble to any toy (remote control car). We hope and pray that we will success with our goal victoriously.