"SMARTPHONE CONTROL ROBOT CAR USING IOT"

Submitted to the

Department of Master of Computer Applications

in partial fulfilment of the requirements

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CERTIFICATE

This is to certify that the project entitled **"Smartphone control robot car using IOT"** is carried out by

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DECLARATION

I hereby declare that the project report entitled **"Smartphone Control Robot Car Using IOT"** based on study undertaken by me, towards the partial fulfilment for the Project (Internet of Things - MCAE15) carried out during the 5th semester, has been compiled purely from the academic point of view and is, therefore, presented in a true and sincere academic spirit. Contents of this report are based on my original study and findings in relation there to are neither copied nor manipulated from other reports or similar documents, either in part or in full, and it has not been submitted earlier to any University/College/Academic institution for the award of any Degree/Diploma/Fellowship or similar titles or prizes and that the work has not been published in any specific or popular magazines.

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ABSTRACT

Recently, robot technology has gained popularity because of labour shortage, ability to work for long hours, etc. Conventionally, wireless control robots use RF circuits, which have the drawbacks of limited working range, limited frequency range and limited control. Use of a mobile phone for robotic control can overcome these limitations. It provides the advantages of robust control, working range as large as the coverage area of the service provider. Although the appearance and capabilities of robots vary vastly, all robots share the features of mechanical, movable structure under some form of control. The control of robot using mobile phone involves three distinct phases: Reception, Processing and Action. Here the reception is done by Blynk Cloud App, processing is done by on-board microcontroller NodeMCU(ESP8266) and the action is performed using motors (DC gear motors). This project proposes a design and implementation of a smartphone controlled car using Wi-Fi technology over the cloud through any smartphone.

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