Remotely controlled electric lawn mower

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Declaration

This thesis is a presentation of our own research work. Where ever the contributions of others involved, every effort was made for indicating this clearly, due to reference to literature and the acknowledgement researches and discussions. All the work is done under the supervision of Sir Dr IRFAN ULLAH at University of Management and Technology

Signed:

Abstract

Our electric lawn mower is divided in to two parts. One part is the rotatory blade part and the other part is moving part which will have all the components mounted on it. This moving robot will carry also the rotating bade part. Both these parts are linked together with the help clamps. Whole project is controlled by the remote control. We used six channel remote control. 24 volt batteries are there to power the rotating blade. As we required a high torque so a 24 volt dc gear motor with pulley and belt is used for that purpose. To run the robot we used a 6 dc motor powered by 6 volt battery. Two servo motor and a speed controller are also there to control operation of the lawn mower.

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Chapter 1

Introduction

Electric lawn mower is one that operates completely on electricity. It’s a rechargeable lawn mower which could be recharged when its batteries have low charging. It’s just electricity that will drive a lawn mower completely instead of noisy engine. This is beneficial in different ways like no pollution, no fuel charges and full of many other advantages. As we used rechargeable batteries. So once we used the lawnmower we can recharge it again for further operation .Another advantage of our lawn mower is that it’s operated by a remote control. So there is no hard work required to operate it. It we can just sit under the shadow of tree and cut all the grass of our lawn or small ground.