

AUTOMATIC LAWN MOWER

PROJECT REPORT SUBMITTED BY

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*In partial fulfillment of the requirements
For the award of the degree of*

BACHELOR OF TECHNOLOGY

in

ELECTRICAL AND ELECTRONICS ENGINEERING

The APJ Abdul Kalam Technological University



Adi Shankara Institute of Engineering
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CERTIFICATE

Certified that this is a bonafide record of the project entitled "AUTOMATIC LAWN MOWER"
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ABSTRACT

Most essential lawn maintenance procedure is mowing. However, doing this task can be tedious, difficult, and risky. An overview of the design and development of an automatic lawn mower, with the goal of improving convenience and effectiveness in grass management. Particularly for big or irregularly shaped lawns, traditional manual lawn mowing can be physically and physically taxing. An automated solution is suggested that addresses these issues by fusing advanced technology and clever algorithms. The control system is essential when trying to operate a robot to aid people with routine chores. Robotic technology has been used to cut lawns in some cases aims to reduce potential risk of hazards while also taking into account energy efficiency, time, and cost. This system is a fully automated grass cutting robotic vehicle powered by solar energy that also avoids obstacles and is capable of fully automated grass cutting without the need for any human interaction. The grass cutter and vehicle motors are interfaced to an Arduino family microcontroller that controls the working of all the motors. An important development in the field of lawn maintenance is the design and creation of an automatic lawn mower. This autonomous system improves efficiency, convenience, and the entire lawn care experience by integrating cutting-edge sensors, clever algorithms, and user friendly interfaces.