

Design and Fabrication of Autonomous Road Painting Vehicle

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ABSTRACT

The Autonomous Road Painting Vehicle is an autonomous mobile system composed of motor driving system, on-board paint system and control system. The Autonomous Road Painting Vehicle is provided with predefined marking to paint sport pitches and draw road markings. Creating a system this complex included experimenting with different actuators and controls modules. Here the emphasis on automating the technology used to mark sport pitches and reduce the resources done to do so. This research project is a record of the experiments performed in the process of automating Line Marking. It prescribes typical contents that a robotic system usually contains, and provides intensive overview of system implemented. Some components are important to use, while others help in making the system simpler to implement. The line marking technology used universally is costly, time consuming, requires labor and days of works. It is hoped that this system will lead to a modest beginning in automating marking system in India imparting flexibility, improvement in engineering design and accuracy of task performed.

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