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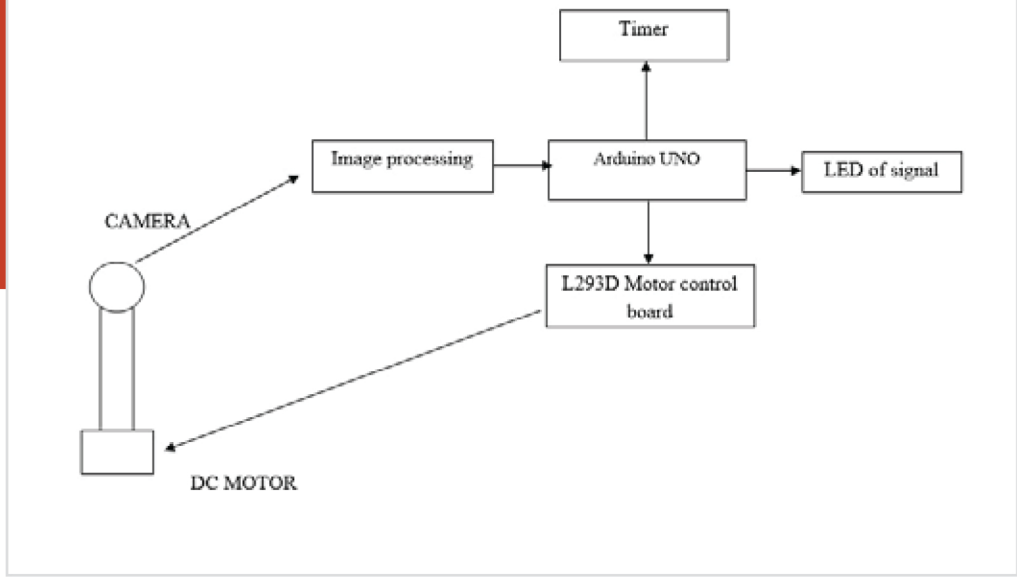
ECE

63 PROJECT

SMART TRANSPORTATION SYSTEM USING IMAGE PROCESSING



With the increase in urbanisation, there has been a spike in the number of vehicles on the road, causing traffic jams. The unorganised traffic signals only add to the woes. Traffic jams are controlled either manually or through a timer. The disadvantages of both these systems are that they are not efficient in real-time. The proposed solution addresses the issues through a video processing-based, automated traffic signal management system in real-time.

Features

- Implemented using MATLAB and Simulink software
- Use of image processing technique: First, the film of a lane is captured by a camera. A web camera placed in the traffic lane captures images of the road. These images are efficiently processed to calculate traffic density. According to the processed data, the controller command traffic LEDs to show particular time on the signal, thus efficiently managing traffic.