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(57) Abstract :

A smart traffic control system called Vehicle Movement Street Light with Light Sensing utilizing ATMEGA is intended to increase public safety, improve energy efficiency, and improve traffic flow. The system detects the presence of cars and modifies the timing of the traffic signals as necessary using an ATMEGA microprocessor, light sensors, and IR sensors. The street lights' brightness is adjusted in accordance with the ambient light levels detected by the system's light sensors, which saves energy and enhances vehicle and pedestrian visibility. To ease traffic congestion and enhance traffic flow, IR sensors that detect the presence of cars change the timing of traffic lights. The ATMEGA microcontroller, light sensors, and other hardware utilized in the system will all be covered in this project.

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