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A Real Time Street Lighting Control System

The article elaborates the design and construction of automatic light control system. The developed electronic system eliminates the disadvantages of the existing systems by taking date and time from the GPS, as it also gives information about the position of the system. Based on the results the microcontroller calculates and automatically detects geographical area and retrieve relevant data for sunrise and sunset in the area, respectively ensures very precise ON/OFF mode of the lighting system. It doesn't need operator maintenance and initial installation setup. The developed electronic device increases bulb life in result of the dimming effect. On the other hand this decrease of the illumination leads to reduce in the energy consumption.