



## **Problem Statement:**

Develop an intelligent street lighting system using the Atmega328p microcontroller that addresses the challenge of optimizing energy consumption while ensuring adequate illumination and safety. Design a solution that incorporates ambient light sensors and motion detectors to dynamically adjust street light intensity based on real-time environmental conditions and human presence. The system should intelligently balance energy efficiency with the need for sufficient lighting, contributing to reduced energy consumption, lower operational costs, and enhanced safety in urban and suburban areas.

## **Company name**

Onnano Technologies , Karur, Tamil Nadu