

Design of an IoT-based smart lighting system

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Abstract: In the context of increasingly advanced smart technology, the issue of efficiency and energy savings in lighting has become urgent. This topic focuses on designing a smart lighting system based on the IoT (Internet of Things) network to meet this need. Through theoretical research combined with experimentation, the goal of the topic is to build a system capable of automatically adjusting light intensity and color based on specific usage requirements. The approach includes analyzing modern technologies in the IoT field and applying them to the lighting system. The expected results of this topic not only enhance energy efficiency but also make a significant contribution to the smart lighting industry.

Keywords: IoT, smart lighting, energy saving