

Design of a smart electrical outlet system using IoT technology

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Abstract: In the context of increasing energy demand and the need for efficient power management, this topic focuses on designing a smart power outlet system applying Internet of Things (IoT) technology. The main objective of the research is to build an automated solution to control and optimize energy usage. The approach combines IoT theory with experimental implementation to enhance remote monitoring and control capabilities. Through this, the topic aims to contribute to the sustainable development of the consumer electronics and smart technology industries.

Keywords: Smart electrical outlet system, IoT, Energy usage optimization, Power management, Application deployment