Design of an internet-connected sensor node for smart home applications

Bui Duy Tien

Abstract: In practice, the development of IoT technology and traditional manual home management create an essential need for smart home systems. This project aims to design an internet-connected sensor network node to efficiently monitor and control household devices. Using a combination of theoretical research and experimentation, the project contributes to solving energy management issues and enhancing living convenience in modern environments. The expected outcome is the development of a flexible and cost-effective smart home management system, providing practical benefits to users.

Keywords: IoT, sensor network nodes, smart home, sustainable energy, inductive transmission