

Abstract Details

Title: Design of a Home Automation System for Reducing Electric Energy Consumption using Wireless Sensor Networks

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Abstract: Wireless Sensor Networks (WSN) technology enabled various applications including structural health monitoring, human health monitoring, among others. With the addition of control capability to the nodes these networks became more useful and allowed more vital applications to be developed, the revolutionary advance was linking WSNs to the internet to become a part of the Internet of the Things IoT, this increased the benefit of WSANs by enabling applications like home automation to become a reality. This paper introduces a small home automation system utilizing WSN Technology. The system could be used to control the home from a local PC.

Keywords: Home Automation, Appliances, Zigbee, Internet of things.