Abstract

Remote control for appliances at home and office based on smart phone is more useful for the
users that equipped with special facilities to enable occupants to control home electronic
devices, including televisions, fan, light switches, cameras, air-condition. It used to provide
cconvenience for user to remotely control the appliances and it provides a better use of
electricity. The efficient use of electricity makes the home automation to play an important role
in daily life. All smart phones come with the ability to communicate over the cellular networks,
and built-in short-range communication capabilities, such as Bluetooth, that could allow them to
communicate and control appliances in their surrounding environment.

Developing a proposed system with low cost that allows users to interact with appliances. A
proposed system includes a microcontroller (AVR) ATmega8 configured with CVAVR software
and Bluetooth sensor to connect with the Bluetooth of smart phone by using application
software installed in the smart phone. To access the control unit, the user should send a
number from the software application to the framework that use to turn on /off the device. This
article describes in detail, the design and implementation of the control system.

References


Index Terms

Computer Science Wireless

Keywords
Appliance control system, AVR atmeg8, Bluetooth sensor, smart phones, Remote control.