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Home Automation with Arduino Board

Ahmed Eldamasy, Mahamoud El-Feqy, and Hager Awaad

Supervisor: Ass. Prof. Emad S. Othman - Senior Member IEEE - Region 8 - AL-Shorouk Academy, Cairo –
Egypt

Home Automation with Arduino Board is a study and design the real home automation system by using the Arduino ATMEGA328 processor. There has been a significant development in the area of an individual's routine tasks and those can be automated. Now-a-days, we can find most of the people clinging to their mobile phones and smart devices throughout the day. Some daily household tasks can be accomplished by the use of the mobile phone. The temperature and fire alerts are also detected through sensors by using the Android based mobile phones. Home Automation System (HAS) has been designed for mobile phones having Arduino platform to automate an 8 bit Bluetooth interfaced microcontroller which controls a number of home appliances like lights, fans, bulbs and many more using on/off relay. This paper presents the automated approach of controlling the devices in a household through temperature and fire detecting sensors that could ease the tasks of using the traditional method of the switch. And the Bluetooth is also used here to automate the system. The embedded c language is used for programming the code. The HAS system for Arduino users is a step towards the ease of the tasks by controlling more different appliances in any home environment.