

Smart Stove

Senior Project Design

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Abstract

A "smart stove top" project is proposed, where temperature sensors are used to monitor the temperature of individual burners and the duration of use while the stove is on is processed by a microcontroller. The project will be connected to the 220V AC wall outlet, powering the stove along with the sensor/alarm circuitry proposed. If the stove top is left on for more than a set amount of time (ie: 30min), an alarm will sound and an will LED flash. If the alarm sounds for another set amount of time without being reset, the power will be cut to the stove, therefore minimizing the risk of fire.