TOP STUDENT PROJECTS

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PROJECT TITLE

DESIGN AND DEVELOPMENT OF AN AUTOMATIC STANDBY SMART IRON BOX



Team 44

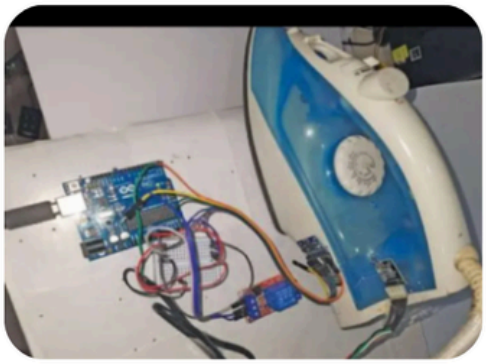
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PROBLEM STATEMENT

Conventional electric irons consume electricity continuously when left unattended, leading to energy wastage, overheating, and potential fire hazards. Users may accidentally leave the iron switched on, increasing the risk of damage to clothes and surrounding property. Therefore, there is a need for a smart iron box that automatically switches to standby mode during inactivity, improving safety, reducing power consumption, and preventing overheating accidents.

SOLUTION

The Automatic Standby Smart Iron Box is an intelligent safety and energy-saving device designed to reduce power consumption and prevent accidents caused by unattended electric irons. Conventional iron boxes continue to consume electricity and generate heat even when left idle, which can lead to overheating, fabric damage, or fire hazards. This project addresses these issues by incorporating sensors and a microcontroller-based control system. The system uses motion and position sensors, such as an accelerometer or vibration sensor, to detect the movement and usage of the iron. A microcontroller continuously monitors the sensor data and determines whether the iron is actively being used.



Technology stacks:

C Program

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