

**ENGINEERING DESIGN PROJECT**  
**EN1190**

# **IRON GENIUS**

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## **Problem identification:**

Most of the people iron clothes daily. With the busy lifestyle and less mindfulness, we can forget to turn off the iron from the plug and leave it on until someone see it. This can cause waste of power and sometimes it can burn the clothes if we put it on the clothes for a long time.

## **Our solution:**

We are planning to make an autonomous switch to turn off the iron after some time of inactivity.

## **Implementation:**

Currently we are planning to introduce this as separate module that can be attached to the iron and the plug. It will have two modules.

- Sensor module: This will be attached to the iron. It will be used to identify the motion/ inactivity and the orientation (Horizontal or vertical).
- Plug module: The power supply to the iron will come through this unit. The control circuit will be inside this module.

The two modules will be connected via a thermal resistive wire (Fabric covered wire).

## **Cost:**

The working prototype building cost is projected around Rs. 1500 to 2000 LKR.

## **Future development:**

As a later development we can integrate the device into the iron which will make it more convenient to the users.

