



Harassment Alert and Prevention Device

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ABSTRACT: Design of the device for providing protection and prevention from harassment by alerts, also supported with location sharing via GPS. It features wireless communication facilitated by GSM and can be activated by the touch sensed by specialised sensors.

KEYWORDS: Harassment prevention alert, emergency notification.

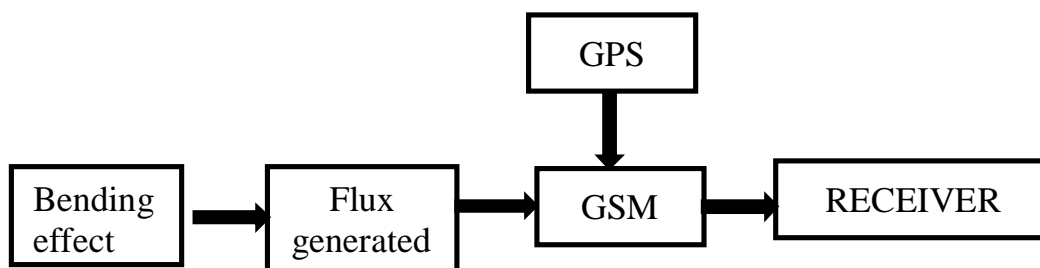
I. INTRODUCTION

We are well aware of the crimes against women throughout the world especially they got being molested sexually. This scenario not only causing personal damages to the victim but even capable of turning the economic growth on negative path. However it is problem of human mind, ensuring safety is utmost for our women. So here we are proposing a device for such cause. The proposed device is specially designed with ease to the female safety ensuring from the sexual attacks. There is no need to explain the need for this device but it is only a initial attempt of the idea to develop it into a complete one in the future. With combined knowledge of embedded system configuration and instrumentation, the design is made. Most sexual attacks are on the genital parts of the victims including bosom. The device is to be made compact in size using VLSI technique. Here we are representing the prototype of the device. The actual design is to simple for anyone to understand the functions of device.

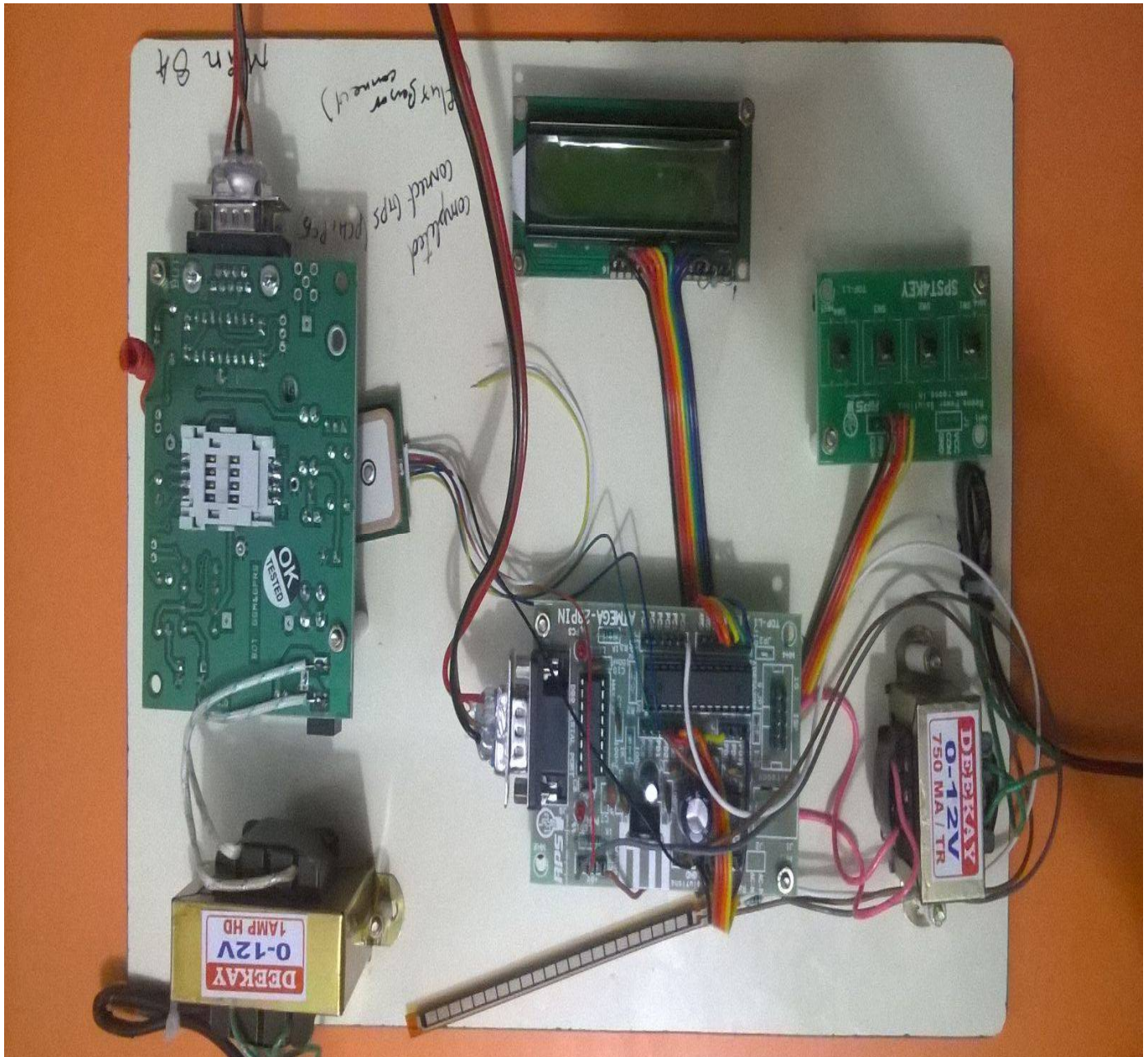
II. SYSTEM DESIGNING

Components are GSM and GPS modules interfaced with microcontroller using embedded programming. The actual functioning of the device is simple but effective, that when a person is being harassed then the input is obtained through the flux sensor just like a strip of metal film attached to the clothing material and the amount of set limit to the flux will generate the device to contact the receiver to alarm the emergency of the victim through their location. Here, flux sensing is based on the amount of force applied into the body surface where the strip is being attached and capable of sensing whether the force is normal touch of a human or due to harassing physically i.e., offence. It is being measured the force value at different instances and measured eventually and set point is made. The microcontroller is being programmed as to enable the system to communicate the GPS coordinates to the emergency alert receiver. It is capable of communicate multiple persons at the same time through text message.

III. BLOCK DIAGRAM



The above shows the basic block diagram of components and the procedure is explained as well.



This is a whole setup of the block diagram. When the input sensor is bent, the bending effect will be increased over the set value it activates the microcontroller, which is connected to the GPS and GSM. The GSM gets the location from the GPS and sends an emergency notification.



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V. FUTURE OF HAPD

The hardware prototype shown here is the initial design. The main objective of this paper is to unleash the possibilities of applications of proposed system in future. Using VLSI technique or even more advanced in the future, the device is made to be a compact one in reality and can be able to operate effectively. It can be designed with ability of providing electric shock to the offender using lithium batteries and even development in hydrogen cells will enable more compact nature of the device. The electric shock will be generated through will made not to hurt the defender using polymer based moulding coated over the device. Future of HAPD is with the local advancement and possibilities avail for manufacturing sector.

VI. CONCLUSION

Initial design is made for further developments with the availability of resources in manufacturing sector not only with this device but also facilitates more possible advancements in combined super bio devices for the welfare of mankind. There are requirements for research and development sector for most of the possible ideas generated in the initial stages to get betterment of ideas. Special interest towards using engineering and technology for human welfare is to be shown parallel to industrial and research sectors.

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