

Smart E-jacket for Women Safety

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Abstract: In general, the era in which we live is the worst one for women's safety. Women are constantly on guard in the home, on the streets, in public areas, and even in company. When women are alone, their primary concern is their safety. Many NGO's, helpline centres, and helpline lines have been established for the safety of women, however none of them are the ideal solution to harassment of women. There are certain mobile applications that can send messages to contacts that have been saved, but none of them are very efficient. The goal of this project is to develop a security system that is specifically designed to give women a sense of security and safety as they deal with social difficulties. This project uses the ARDUIN NANO, GPS modem (NEO6MV2), GSM modem (SIM800L), and Push button switch to create a Smart Protective Jacket. If a woman feels threatened, she can use this jacket at any time. The push button switch is used to turn on the jacket. The GPS modem is then used to begin tracking the location. When the buzzer sounds, the GSM modem assists in sending alarm messages and making calls to the registered contact numbers, enabling those in the area to act quickly and assist the sufferer. Moreover, a shock circuit is employed for defence. If a woman is unable to hit the push button, the fall detection sensor, which is also included into the jacket, will assess the lady's position in relation to the moment of her fall and transmit location and alarm messages to the registered contacts via GPS and GSM modems.

Keywords: A push button, an ARDUINO NANO, a GPS or GSM modem, a fall detection sensor, a buzzer, or a shock circuit

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