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DESIGN AND DEVELOPMENT OF PANIC BRACELET FOR DOMESTIC VIOLENCE

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ABSTRACT

This study aims to create a Wi-Fi panic alerting system for victims of domestic violence who experience isolation or high-risk situations. The proposed system uses ESP32 microcontrollers and a push button to transmit emergency messages through the Telegram application. The system emphasizes the importance of being affordable, accessible, and reliable, ensuring that the device is discreetly wearable and functional during emergency situations. The coastal town of Nasugbu in Batangas houses a young woman who faces domestic violence from her partner. The woman experiences physical and emotional abuse from her live-in partner. Her partner restricts her freedom by confiscating her phone and prevents her from going outside without supervision. Her situation becomes more severe whenever she attempts to seek outside support. Her abuser reacted with increased physical aggression when she contacted the barangay for help.

Keywords: *wearable technology, wi-fi-based alert system, esp32 microcontroller, telegram messaging integration, domestic violence intervention*

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