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## **Intruder Detection System (IDS)**

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Abstract: The project titled "Advance Security System with Intruder Detection and sending alert message through SMS" focuses on developing a smart security solution that detects intruders, and sends alert message to the user via SMS. This system utilizes an IR sensor, ESP32 cam module, Arduino uno ATmega328 and a GSM module to achieve real-time monitoring and remote alerts. When the IR sensor detects unauthorized movement, the ESP32 processes the signal. The alert message is then forwarded to the user's designated mobile number, ensuring prompt notification.

This advanced security system is designed for applications in residential, commercial, and industrial environments, where real-time detection and documentation are critical. By leveraging SMS for remote alerts, users can receive and review security updates regardless of their location, provided they have internet access. The system is easy to install, cost- effective, and highly reliable, providing enhanced security with features such as automated SMS alerts, and remote monitoring.

Keywords: SMS Alert ,Arduino Atmega328 ,ESP32-CAM,IR Sensor ,GSM Module.

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