TOP STUDENT PROJECTS

Best innovations from VTU, Mysuru

PROJECT TITLE

SMART SECURITY SYSTEM USING LASER



Team 35

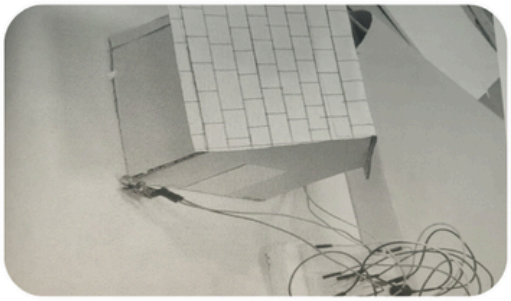
- SHESHANNA MURTHY M
- RAHUL
- RAVIKUMAR
- KAVITA
- KUSUMA
- DEEPTHI

PROBLEM STATEMENT

Unauthorized entry into electrical substations and restricted areas is difficult to monitor continuously, which can lead to safety hazards, equipment damage, and power supply interruptions. Manual surveillance is unreliable and cannot provide immediate alerts during unauthorized access. Delayed detection increases the risk of accidents, theft, and unauthorized tampering with critical electrical infrastructure. Therefore, there is a need for an automated unauthorized entry detection and alert system that provides real-time monitoring and instant notifications to improve security and safety.

SOLUTION

The proposed system is an IoT-based Unauthorized Entry Detection and Alert System designed to enhance the security of electrical substations and restricted areas. The system utilizes sensors such as infrared (IR) sensors, motion sensors, magnetic door sensors, or RFID-based access control systems to continuously monitor entry points and detect unauthorized access. When an unauthorized person enters the restricted area, the sensors immediately detect the intrusion and send the information to a microcontroller for processing. The system then triggers an immediate alert through a buzzer, SMS, or mobile notification to inform security personnel in real time. Additionally, the event is logged in the system for further analysis and to improve future security responses.



Technology stacks:

C Program

SCAN ME