## IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 11, April 2025



## Laser Light Security Alert System using ESP32-Cam with Integration of Telegram IoT

B. Suresh Reddy<sup>1</sup>, L. Saikumar<sup>2</sup>, B. Saicharan<sup>3</sup>, M. Nandini<sup>4</sup>, D. Laxmi<sup>5</sup>

Asst. Professor, Dept. of Electrical & Electronics Engineering<sup>1</sup> UG Students, Dept. of Electrical & Electronics Engineering<sup>2,3,4,5</sup> Christu Jyothi Institute of Technology & Science, Jangaon, Telangana, India

Abstract: In today's world, security is the first issue that needs to be addressed. In terms of home security, we provide our users a simple way to use internet networking to manage the multiple devices in their houses. Modern technologies are developing so quickly that home security systems must be improved. We are utilizing IOT to develop a low-cost home security system because we recognize the value of home security. The goal of the home security system project is to make homes and other private spaces more secure by integrating the ESP-32 CAM with the Telegram app. An ESP- 32 CAM module powers the gadget and records live video that is sent to a Telegram bot. The bot then uses motion detection to notify the owner's Telegram account. The project is implemented using the Arduino IDE and several libraries, including the Telegram Bot and ESP32 CAM libraries. The system is designed to be low-cost, easy to install and maintain, and very effective at deterring break- ins and other security breaches.

Keywords: Home Security, Internet of Things, Arduino, ESP32-CAM, Telegram application



