

INTRUDER DETECTION AND SEND A CAPTURED IMAGE TO GMAIL

AIM:

Design and Development of Intruder detection and send a captured image to Gmail using ESP32-CAM.

PURPOSE:

Security is very important in every sector like homes and industries. Especially intruder detection and alerting is also very necessary for security application. Alerting is also main part of security systems. Email alert is very helpful and no chance to fail. Here we want to implement intruder detection and send a capture image to Gmail using ESP32-CAM.

DESCRIPTION:

Here ESP32-CAM is main heart of the project. It needs 5v DC and provide by daughter board. ESP32-CAM placed on daughter board and it has all digital pins. PIR sensor connected to ESP32-CAM digital pin. Buzzer also connected to digital pin.

WORKING:

When any intruder detected then PIR sensor gets activated and it sends signal to ESP32-CAM. ESP32-CAM connected to internet through hotspot or WIFI, also it needs SSID and password. We have to make some Google script procedure in Gmail ID (receiver E-mail ID). When PIR sensor activated then buzzer will be ON. Also it sends image to Gmail when PIR activated.

TECHNICAL SPECIFICATIONS:

HARDWARE:

| | | |
|--------------------|---|-------------------|
| Microcontroller | : | Esp32-Cam |
| Intruder Detection | : | PIR Sensor |
| Buzzer | : | 5v DC |
| Power Source | : | 12v 1 amp Adaptor |

SOFTWARE:

Arduino IDE

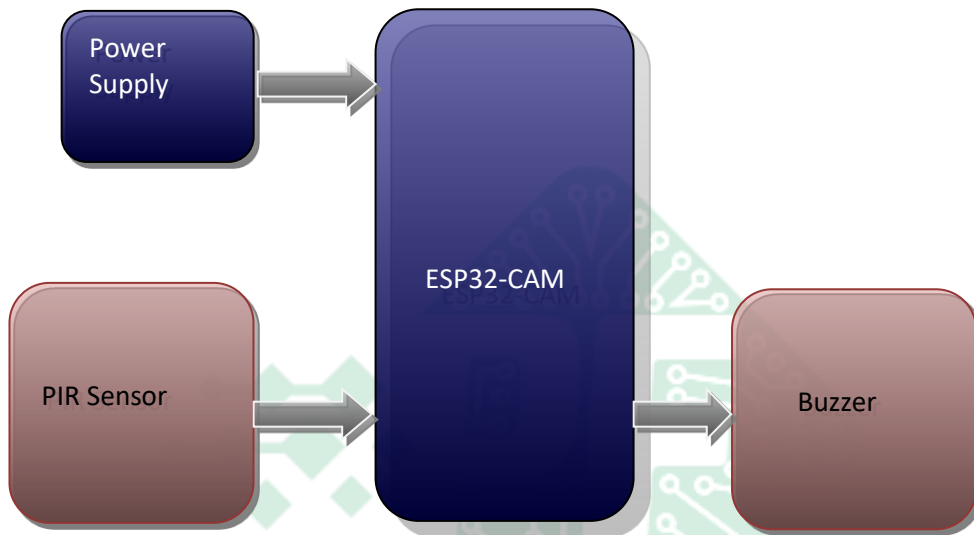
APPLICATIONS:

- Security Alert
- Intruder Security

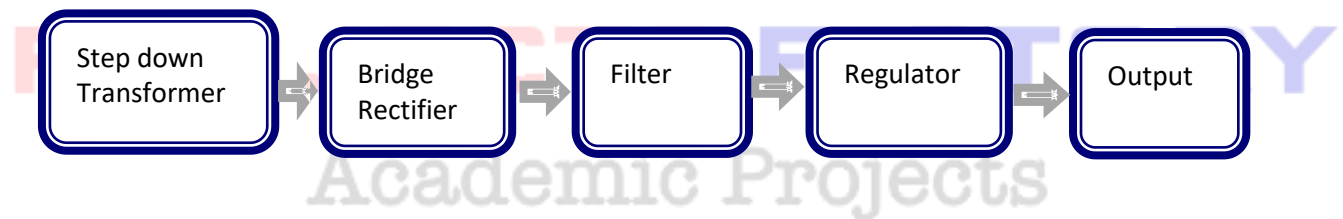


PROJECTS FACTORY
Academic Projects

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERD:

- We have covered Esp32-Cam
- PIR sensor interface