**ABSTRACT** 

An empty house is an easy target for criminals to break the house. Therefore,

it is necessary to have a solution to overcome them. Prevention through early warning

systems and checks remotely (remote sensing) as well as to take further action is one

of the solutions.

In this final project was designed and realized a system of sensors in some

parts of the house that might pass the house breaker such as doors, windows and

fence. Sensor part consists of an infrared transmitter and receiver. Sensor output is

processed by a microcontroller which is then used to give commands to the SMS

Gateway (which is realized by mobile phone) to send home the message according to

the attached sensors. SMS is sent to the house owner's mobile phone number so that

house owners can immediately check by accessing the streaming video broadcast by

IP cameras are installed at certain places. Thus, homeowners can observe the situation

around the house from where she was.

The results of this final project produced a prototype of the home security

devices such as those described above, with the average time between the

occurrence of changes in the system response to sensor inputs receiving SMS mobile

home owners at rush hour is over 7 seconds, and the clock is not busy for 4 seconds.

While in testing video monitoring has a delay of 5 seconds. So, this system can

overcome the problems left behind an empty house owner / occupant.

Keywords: remote sensing, microcontroller, SMS Gateway, video streaming

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