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**Sonargaon University (SU)**  
সোনারগাঁও ইউনিভার্সিটি (এসইউ)

## Automated Home Surveillance System Using IOT.

A Project and Thesis

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## DECLARATION

We do hereby solemnly declare that, the work presented here in this project report has been carried out by us and has not been previously submitted to any University/ Organization for award of any degree or certificate

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We further undertake to indemnify the university against any loss or damage arising from breach of the foregoing obligation.

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## Certification

This is to certify that this project entitled “Automated Home Surveillance System Using IOT” is done by the following students under my direct supervision. This project work has been carried out by them in the laboratories of the Department of Mechanical Engineering under the Faculty of Engineering, Sonargaon University of in partial fulfillment of the requirements for the degree of Bachelor of Science in Mechanical Engineering.

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Dedicated to  
**Our Parents**

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## ABSTARCT

Home security has become a most important responsibility in recent year. As the technology is expanding day by day. This paper represent the prototype and design of a home security and surveillance system that helps to make home more secure, advanced, and economical. The Internet of Things has become one of the most important exposure for the future of wireless sensor technology. Wi-Fi is one of the most important wireless communication protocols for connecting various devices to exchange data over the Internet. IOT is implemented in smart home security for embedded modules for devices for the independent operation of collecting and monitoring various sensor data for home security and embedded with android application. Here we use Node MCU for IoT communication, gas sensor, flame sensor, laser sensor, SMPS, ESP 32 camera. When a person come to inside of the home then laser light sensor detect object and alert the home member at night . If there create gas leakage and flame then will send in mobile apps and buzzer will be ring. And ESP 32 camera will show web view in mobile. Gas and Flame Sensor detect the fire and flame. This the main approach of our system.