

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-

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**A MICRO PROJECT REPORT ON
“Electronic Watch Dog Project”**

Submitted By,

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Under the Guidance of

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

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CERTIFICATE

This is to certify that the Micro-Project entitled “Electronic Watch Dog Project” has been Successfully Completed by

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The bonafide students of **Department of Basic Sciences, Alva's Institute of Engineering and Technology**, affiliated to **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**, during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.


Ms. Sowmya
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ABSTRACT

Many people have pet dogs stationed at their front doors in the past and even now. The dogs' purpose is to bark anytime someone comes in via the door. Because it accomplishes the same purpose of detecting the presence of a human at a premises' entry, this project is dubbed the Electronic Watch Dog Project. At the entrance to the premises that has to be protected, a pair of IR sensor transmitters and receivers are installed. In our situation, this is what works in this project. The IR beams are cut when a person or burglar who is unaware of the security equipment set at the entrance enters through the door. The cutting of IR rays sets off a chain of events in the circuit, culminating in the sounding of a burglar alarm. The owner of the premises may learn that someone has entered through the door after hearing the alarm. In the same way, this device can be installed at any perimeter that needs to be protected from intruders. The IR rays from the transmitter reach the IR receiver, signalling to the 555 IC that there is now no signal between the sensors. When an intruder cuts the IR rays, however, the receiver output changes, causing the 555 IC to activate. This finally causes the UM66 IC to be triggered. As a result of these events, the speaker connected to the circuit board's output begins to ring, alerting the intruder at the secured perimeter.