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VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI-590 018

A MICRO PROJECT REPORT ON

"Sonar-based security system based on a microcontroller"

Submitted By,

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Under the Guidance of

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ALVA'S
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DEPARTMENT OF BASIC SCIENCES

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA

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CERTIFICATE

This is to certify that the Micro-Project entitled **"Sonar-based security system based on a microcontroller"** 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.

Mr. Sandeep Kumar
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ABSTRACT

This project is built on the RADAR principle. A SONAR module is installed on a stepper motor in this project. The SONAR module puts out ultrasonic waves and scans the room as the stepper motor turns. As a result, if this project is placed in the centre of a room, it may scan the entire area, and the scanning range is determined by the SONAR module employed. The range of a Polaroid 6500 series sonar ranging module is approximately 6" to 35ft.