

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI-

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**A MICRO PROJECT REPORT ON
“Short Circuit Indicator Project”**

Submitted By,

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Under the Guidance of

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**ALVA'S
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DEPARTMENT OF BASIC SCIENCES

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CERTIFICATE

This is to certify that the Micro-Project entitled "Short Circuit Indicator 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.


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ABSTRACT

A short circuit occurs when the input terminals of a power source make electrical contact with one other, resulting in a large current flow. This generates a lot of heat, which can harm the system and potentially put persons in the area in danger. As a result, short circuit conditions must be noticed and addressed as soon as possible. The Short Circuit Indicator Project is responsible for automatically detecting short circuits in circuits in which it is connected. We used a regulator and a pair of transistors to light up an indication LED that only illuminates when a short circuit occurs. In this manner, the short circuit state may be easily understood, and suitable measures for switching off the power supply and eliminating the short circuit can be taken. We exhibited a short circuit in our circuit board by using a wire piece with very low, near-zero resistance, resulting in a short circuit at the source connector.