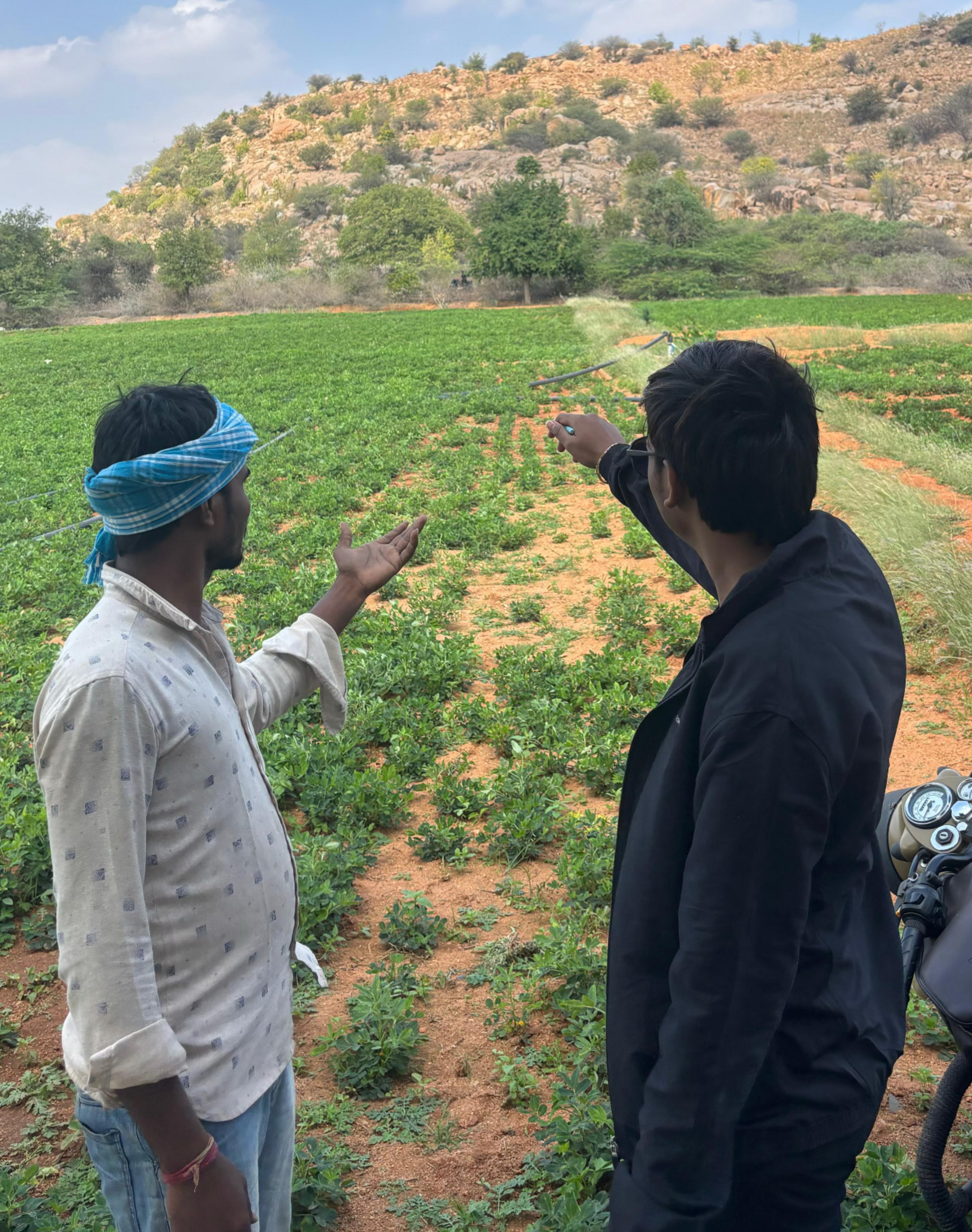


📍 ANANTAPUR, ANDHRA PRADESH



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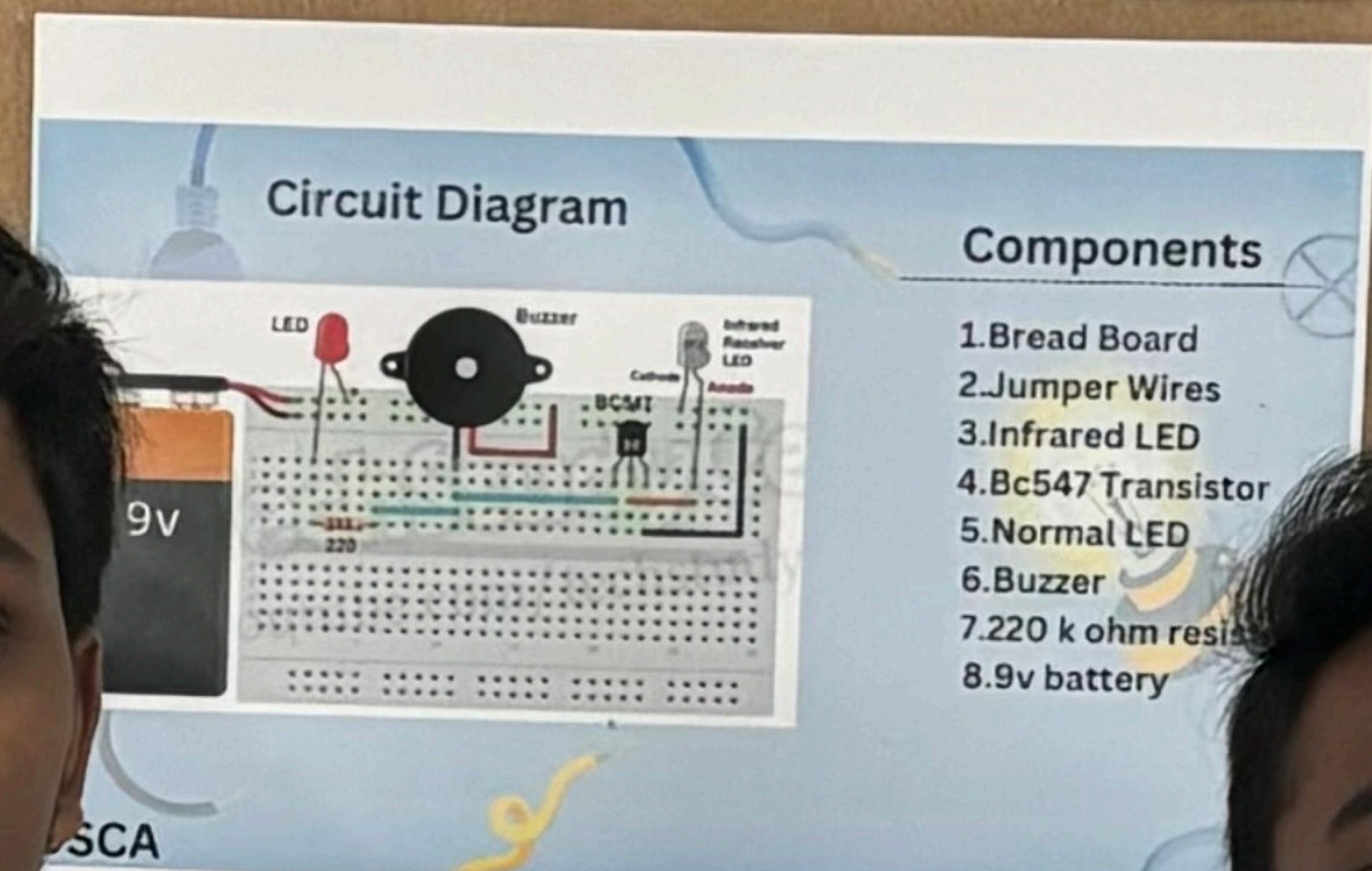
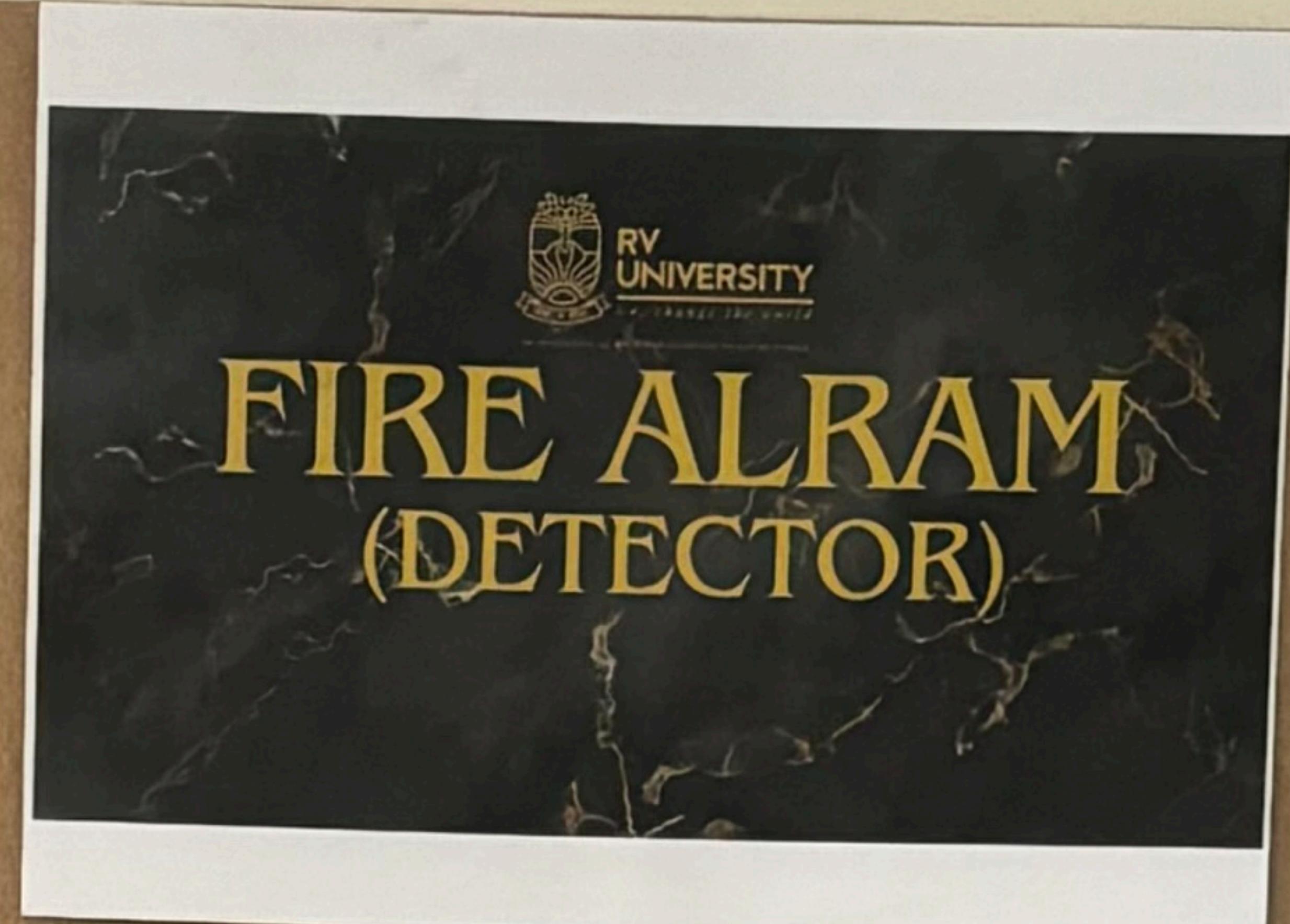
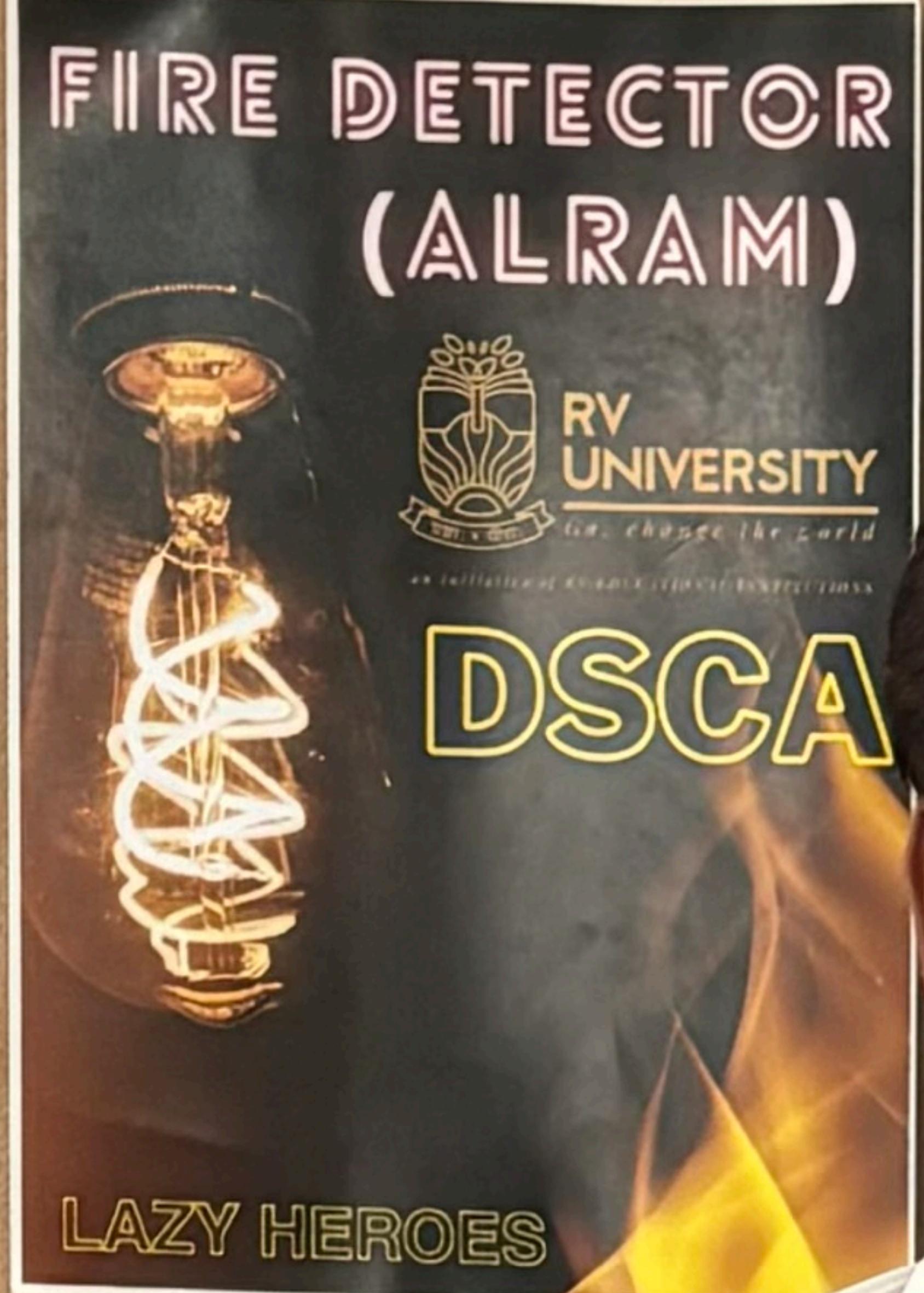
ANANTAPUR, ANDHRA PRADESH





ANANTAPUR, ANDHRA PRADESH





Components

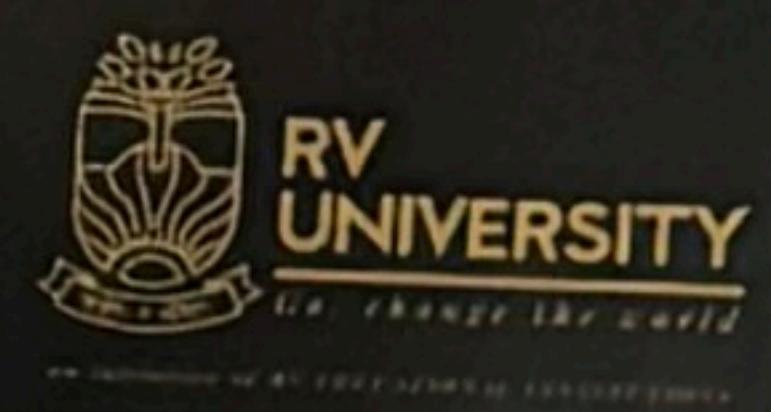
1. Bread Board
2. Jumper Wires
3. Infrared LED
4. BC547 Transistor
5. Normal LED
6. Buzzer
7. 220 k ohm resistor
8. 9v battery

Block diagram

In this fire alarm circuit, we have used an infrared detector LED. The infrared emitted from the fire is detected by the infrared LED and voltage across the infrared led changes. The Anode of the infrared LED is connected with the base of the BC547 NPN transistor. Due to the positive pulse, the transistor turns on through base-emitter junction. If there is no fire, the transistor remains off.

Presented by

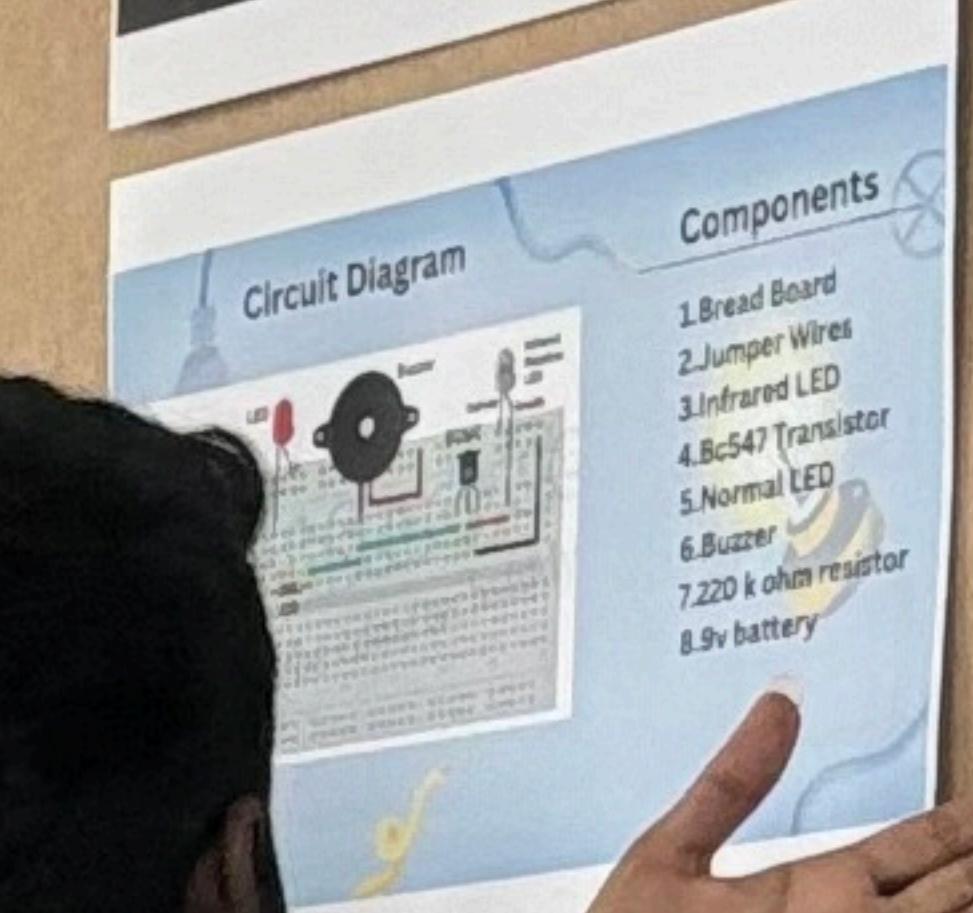
Kanduri Aryaprasadh
Chetan S K
Gagan A
Hruthik T S
Maqsood Ahmed
Harshitha J B
Moulya Gowda J S
Professor
.Veena S
ector
ekshitha SK





FIRE ALARM (DETECTOR)

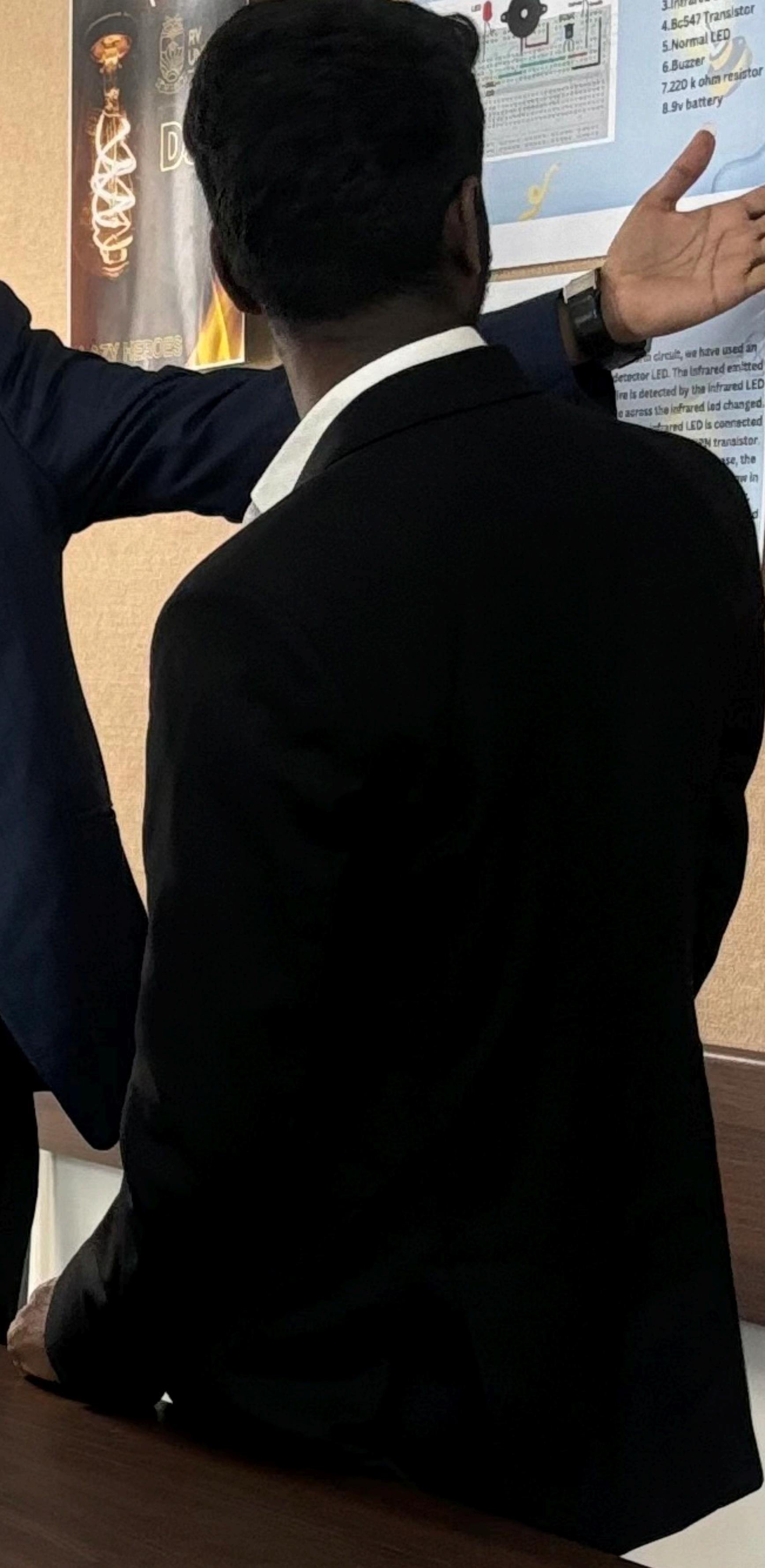
FIRE DETECTOR (ALKAM)



Components

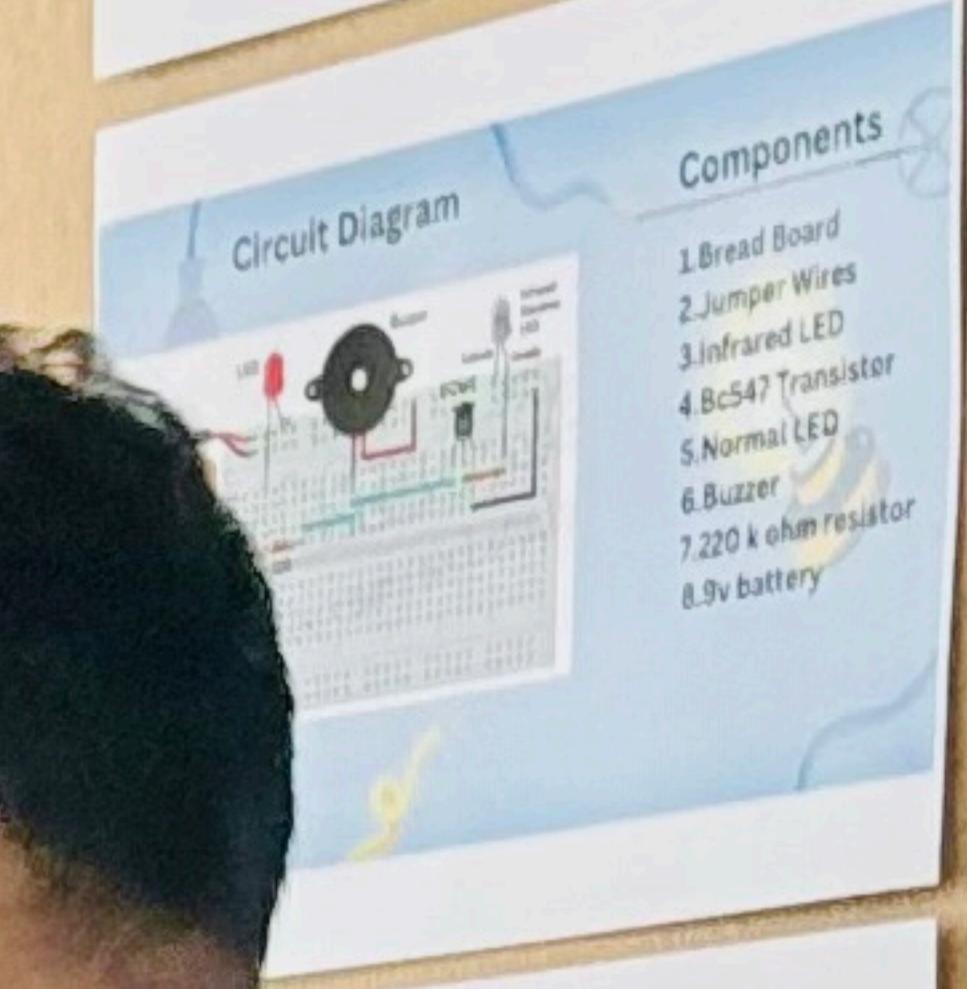
- 1.Bread Board
- 2.Jumper Wires
- 3.Infrared LED
- 4.2N2222 Transistor
- 5.Normal LED
- 6.Buzzer
- 7.220 k ohm resistor
- 8.9V battery

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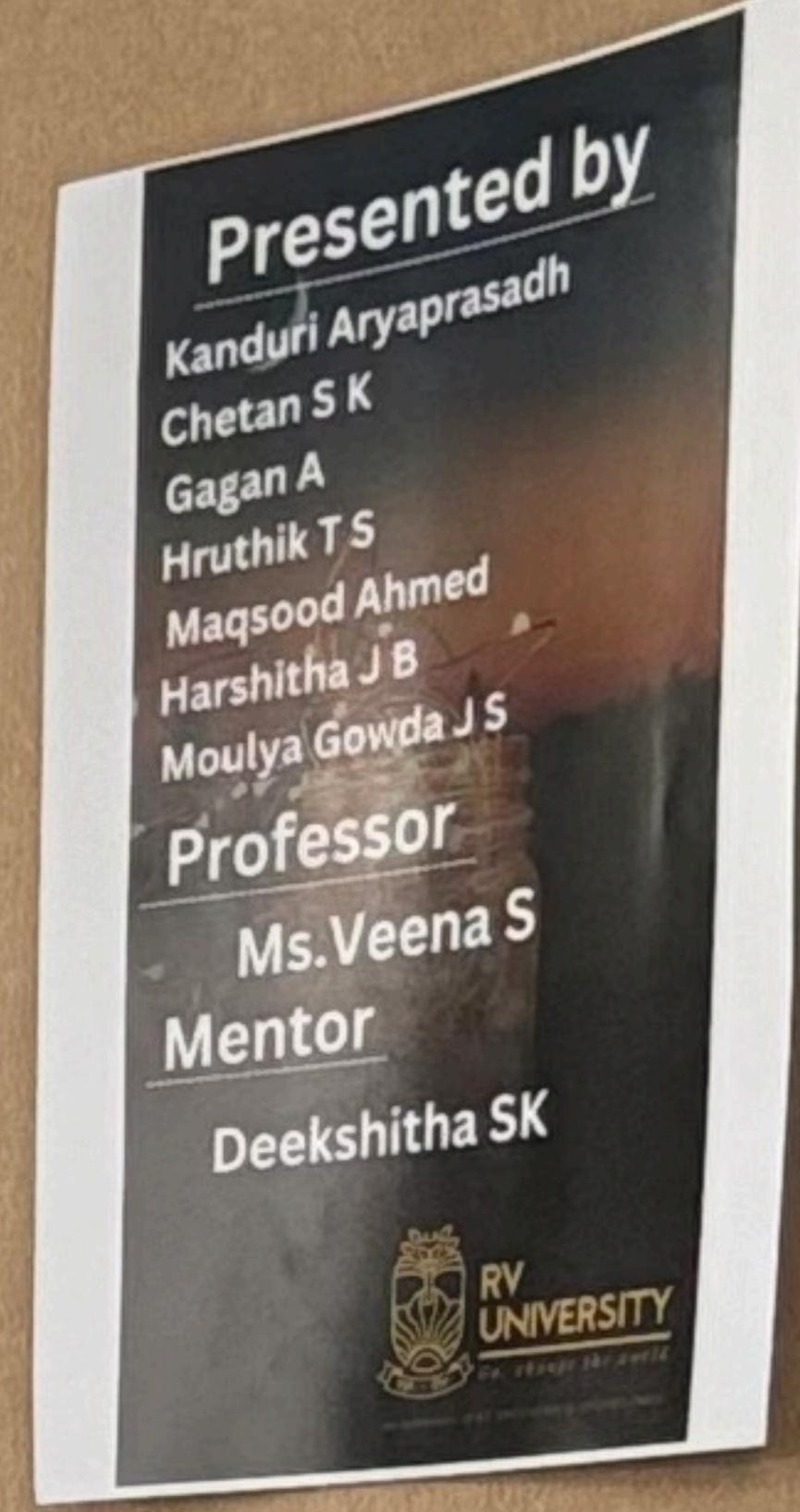
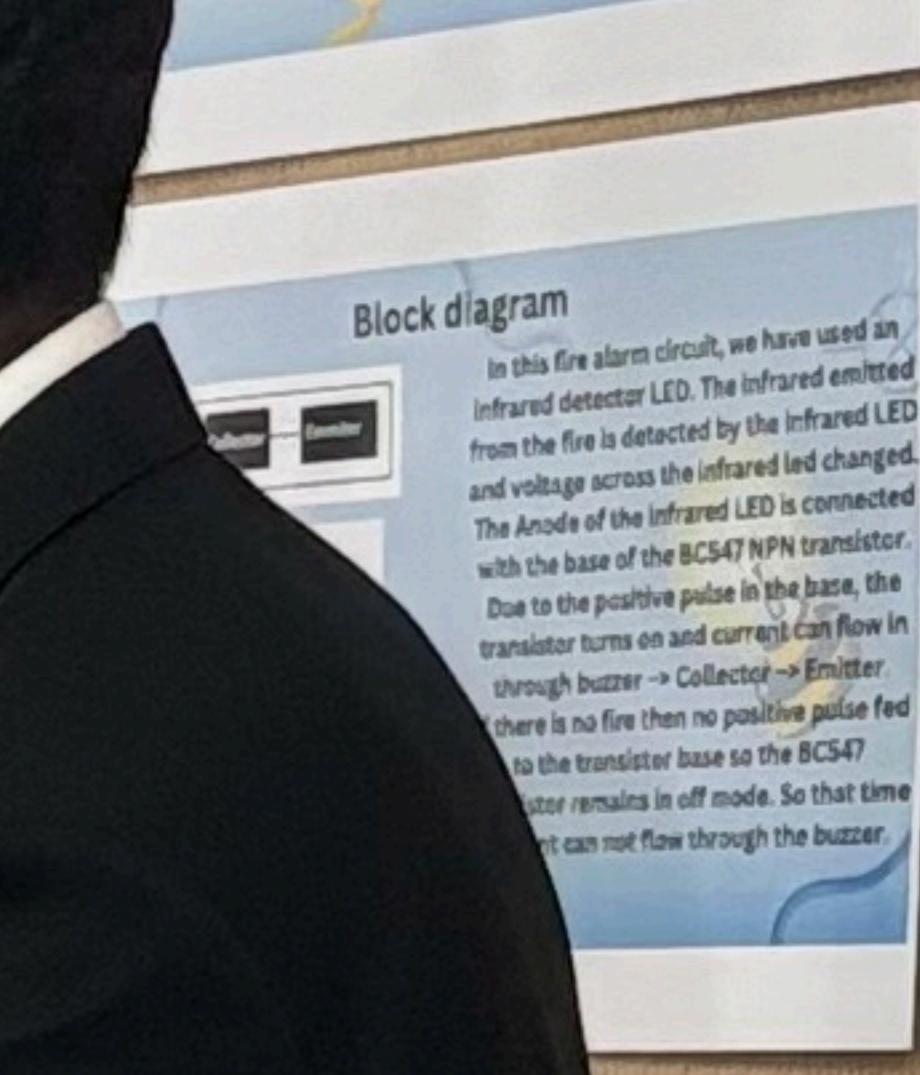
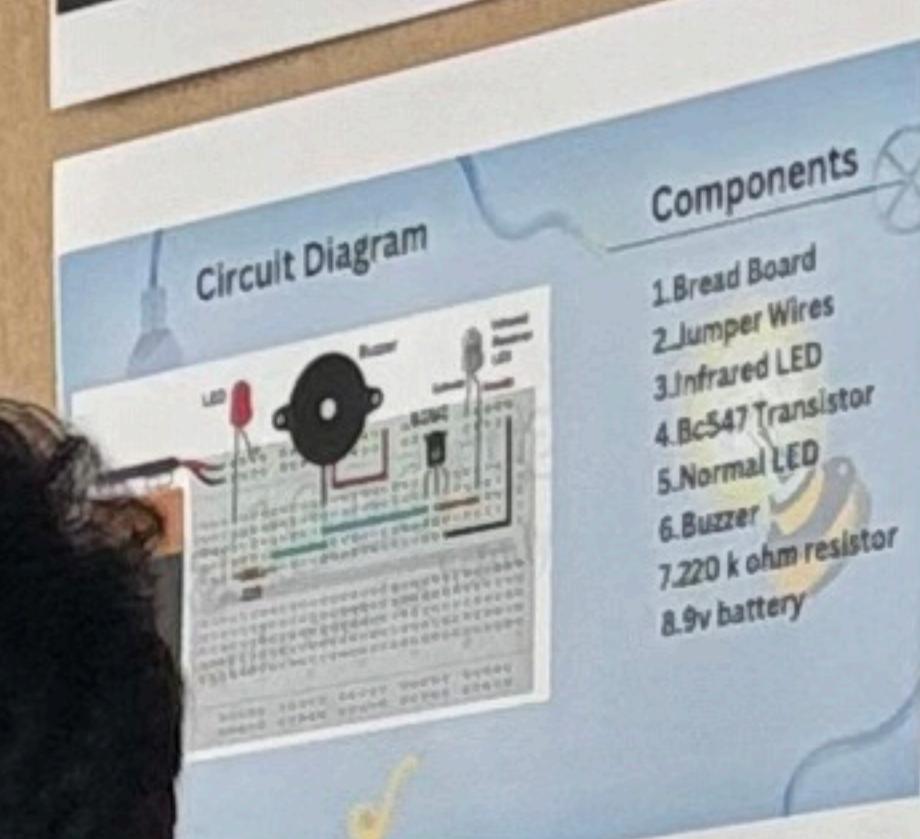
FIRE ALARM (DETECTOR)



Block diagram

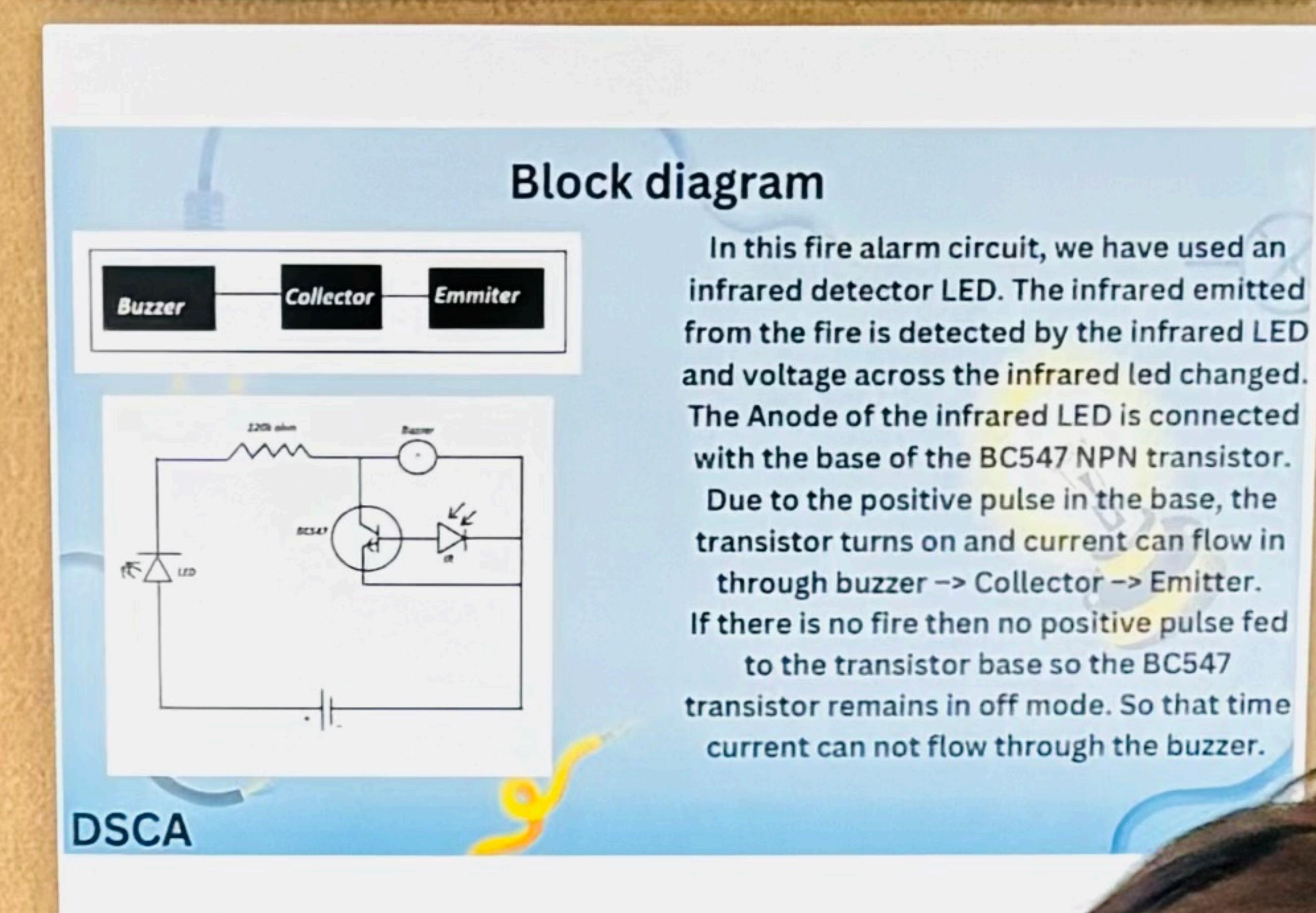
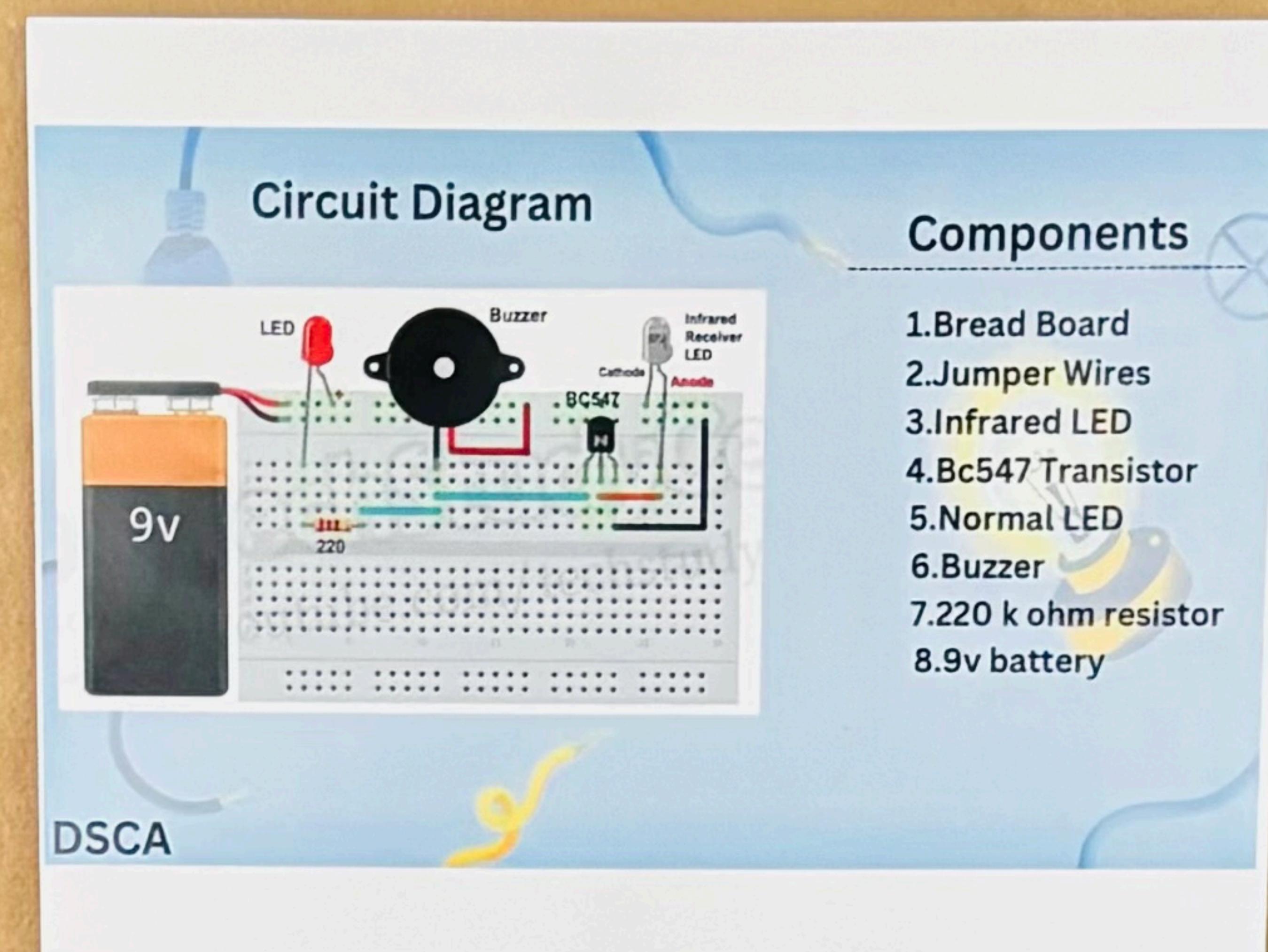
In this fire alarm circuit, we have used an infrared detector LED. The infrared emitted from the fire detected by the infrared LED changes the voltage across the infrared led changed. The output of the infrared led is connected to the base of the BC547 NPN transistor. When the infrared led is detected, a negative pulse is at the base, the collector-emitter current can flow in the collector-emitter direction. This current is fed to the positive pulse fed to the BC547. The BC547 is in common-emitter mode. So that time current flows through the buzzer.

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THE ALURAM (DETECTOR)

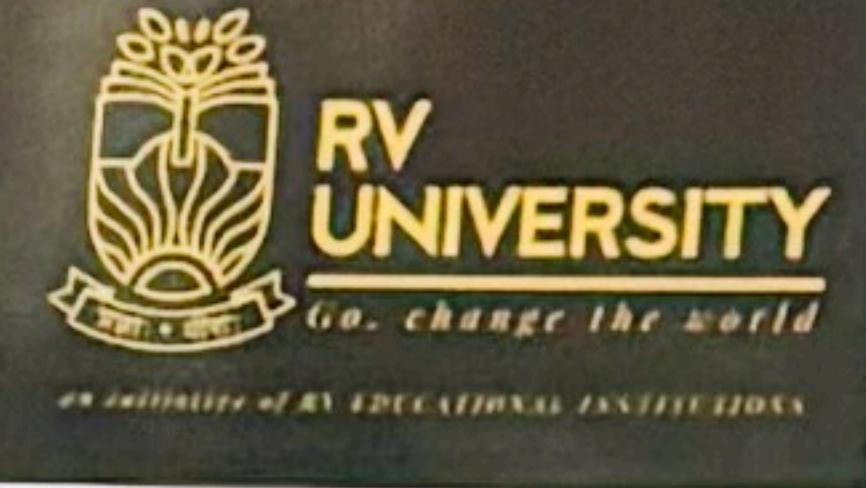


Presented by

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Gagan A
Hruthik T S
Maqsood Ahmed
Harshitha J B
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Professor

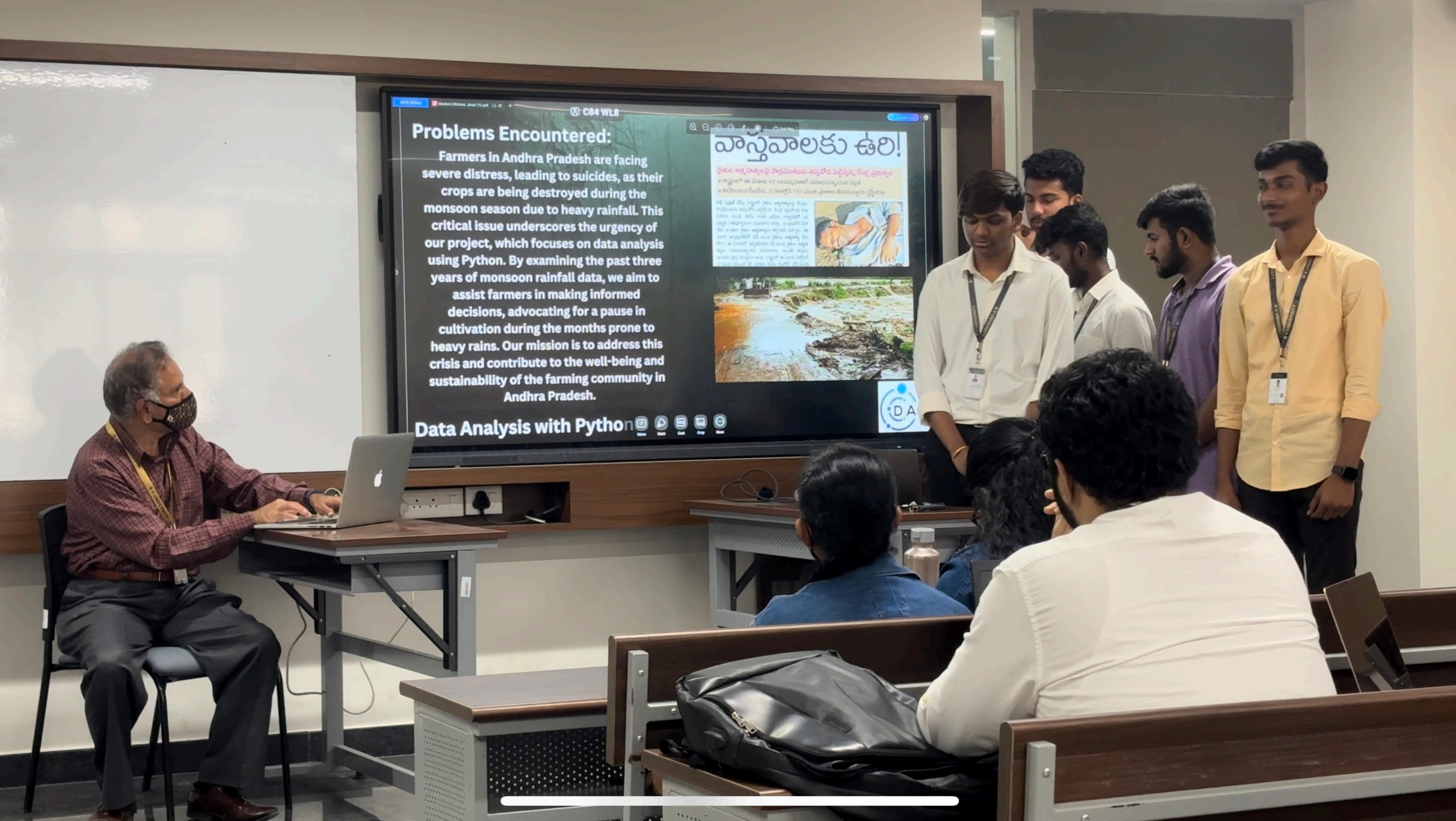
**Ms.Veena S
Mentor**

Deekshitha SK









Problems Encountered:

Farmers in Andhra Pradesh are facing severe distress, leading to suicides, as their crops are being destroyed during the monsoon season due to heavy rainfall. This critical issue underscores the urgency of our project, which focuses on data analysis using Python. By examining the past three years of monsoon rainfall data, we aim to assist farmers in making informed decisions, advocating for a pause in cultivation during the months prone to heavy rains. Our mission is to address this crisis and contribute to the well-being and sustainability of the farming community in Andhra Pradesh.

Data Analysis with Python

