



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### 18EEP202L-MINOR PROJECT II

#### FINAL REVIEW

# TERMITE DETECTION SYSTEM

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## ABSTRACT

Thermal imaging technology detects heat patterns. When termites invade buildings, the normal heat patterns on the walls, floors and roof are changed due to the presence of termites. The thermal camera records this change in heat patterns and indicates the exact location of any termite infestation.



## PROBLEM STATEMENT

- Termites can not only destroy all of your things that are made of wood, but can also infect your food supply to the point that you will need to throw things out and waste a lot of food.
- If you do nothing about the invasion ,they will continue to affect your food and cost you a lot of money in food bills.
- Termites can cause some serious expenses by damaging your furniture and droppings inside cupboards or next to the cupboards on the floor.



## PROBLEM DESCRIPTION

- Using Thermal sensor we can detect the termites and with the help of the laser light we can capture the termites at residential areas.
- If there is any presence of termites in the area the thermal sensor will find and start to make a alarm sound.
- After the alarm sound it take some duration of 5minutes to spray the Boric acid.
- With the help of the system we can rectify the termites in residential areas.

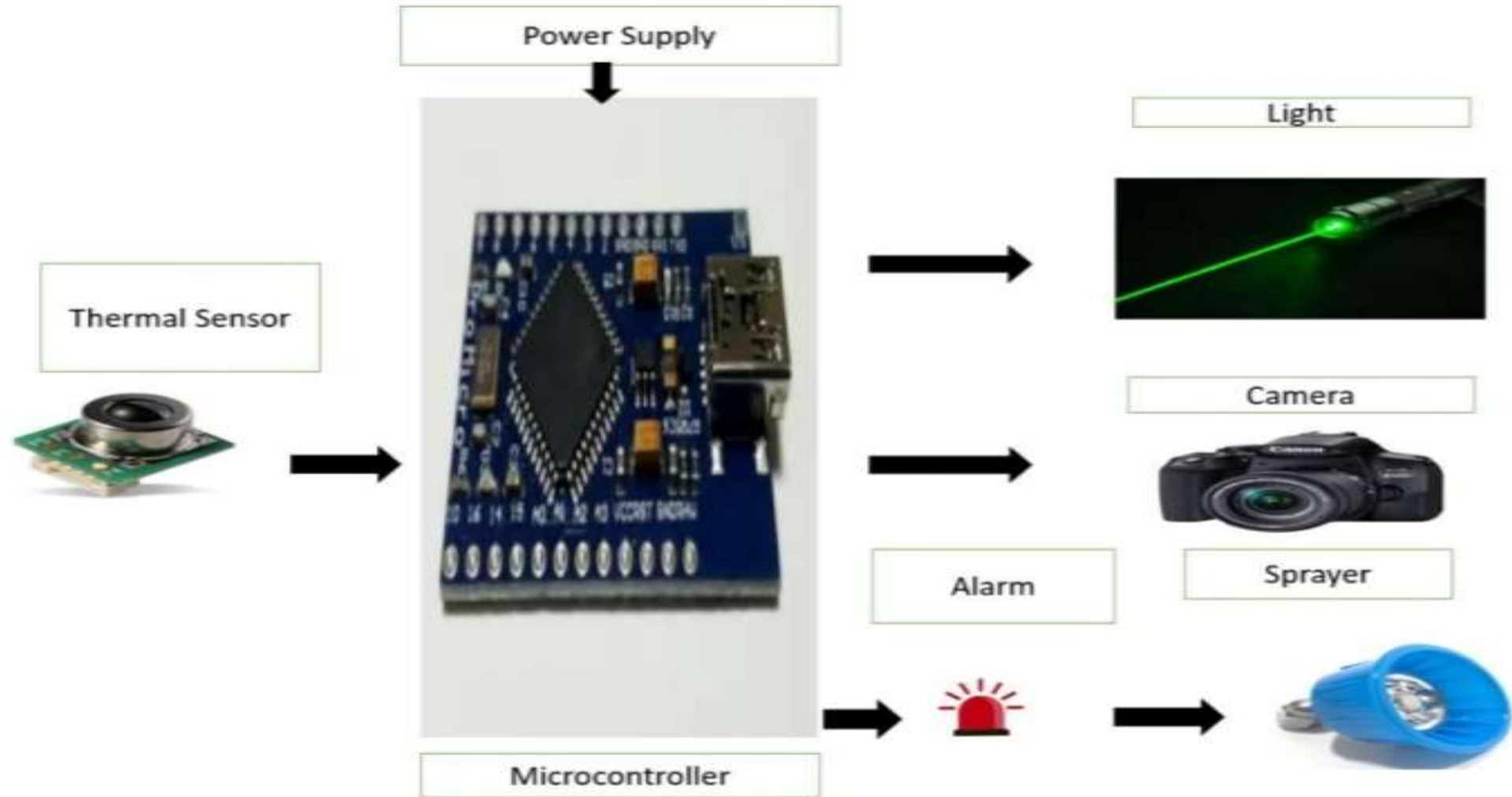


## COMPONENTS USED

- Thermal Sensor
- Micro Controller
- Laser light
- Camera
- Alarm
- Sprayer



## BLOCK DIAGRAM





# PROJECT KIT





## WORKING

- When you turn on the power supply, the power supply board will transfer the supply to the microcontroller.
- The thermal sensor will sense the termite and with the help of the buzzer we can hear the sound and we can detect the termite.
- After the alarm we can see the termite with the help of light which we have inserted in our project.



## COST ESTIMATION

S.NO	COMPONENT DESCRIPTION	QUANTITY	COST
01	THERMAL SENSOR	1	250
02	MICRO CONTROLLER	1	100
03	LASER LIGHT	1	150
04	CAMERA	1	500
05	SPRAYER	1	200
		TOTAL	1200