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Advance Elevator with Load Monitoring

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ABSTRACT: The main objective of this project is to design and build an elevator/elevator control system. "Advanced Elevator with Load Monitoring and Alarming" is an elevator feature designed to continuously monitor the load and set an alarm if the load exceeds the threshold.

elevator safety is the duty of ensuring the safety of people using the elevator.

The program will provide high security as well as easy identification. This circuit is completely independent of the elevator circuit.

Due to the increase in the urban population and the number of buildings, the demand for elevators has increased. With the development of lifestyle and people-orientedness, the development of multi-storey warehouse structure and engineering engineering, the installation of elevators in high-rise buildings has become a part of the movement. products and people

KEYWORDS: HFSS, Microstrip, Microwave filters, Fabrication techniques, Filter design software

I. INTRODUCTION

The main aim of this project is to design and construct advance lift/elevator control system. "Advanced Elevator with load monitoring and Alerting" is an advanced elevator system which is designed to continuously monitor the load, and if the load exceeds the threshold, system alerts by raising an alarm.

The advanced elevator security system is a project to ensure complete safety for the people while using the elevator. This project will provide advanced security in addition to the basic surveillance systems.

This circuit is completely independent of the elevator circuit. Due to the cause of rapid population growth at the cities and multi-stored buildings, the need of elevators is being increased. With the rising life standards and attention to human and with tremendous development in structural and architectural engineering for multi storage building, the installation of elevators in these high rise buildings becomes an integral part of the infrastructure for the movement of goods and people.

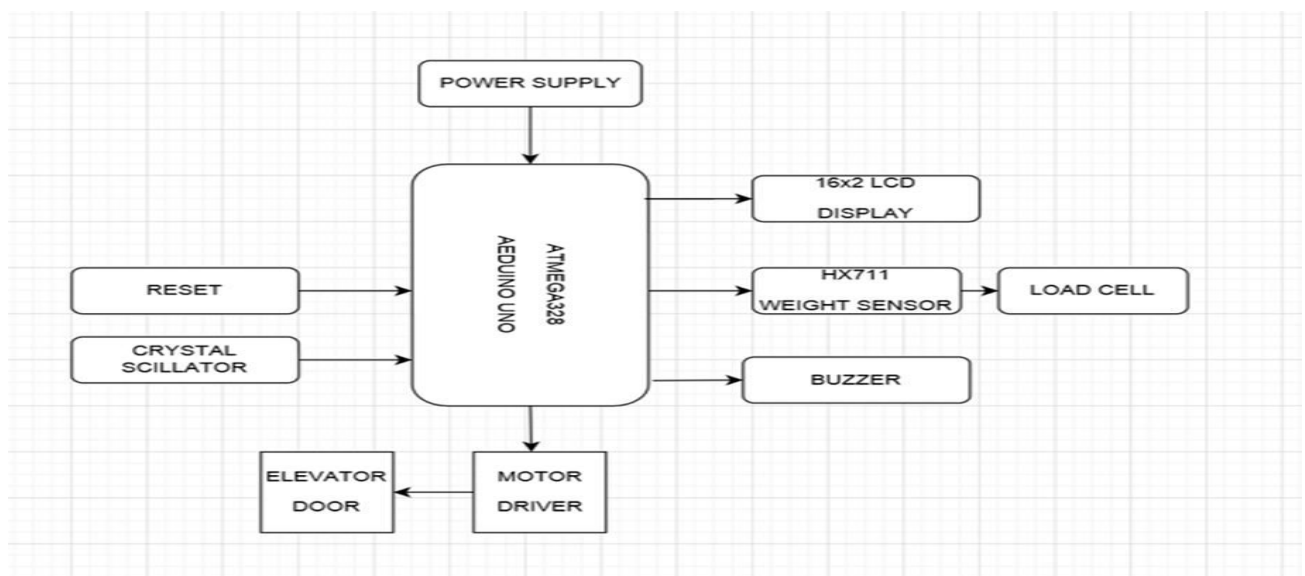


Fig 1:- Block Diagram of Advance elevator

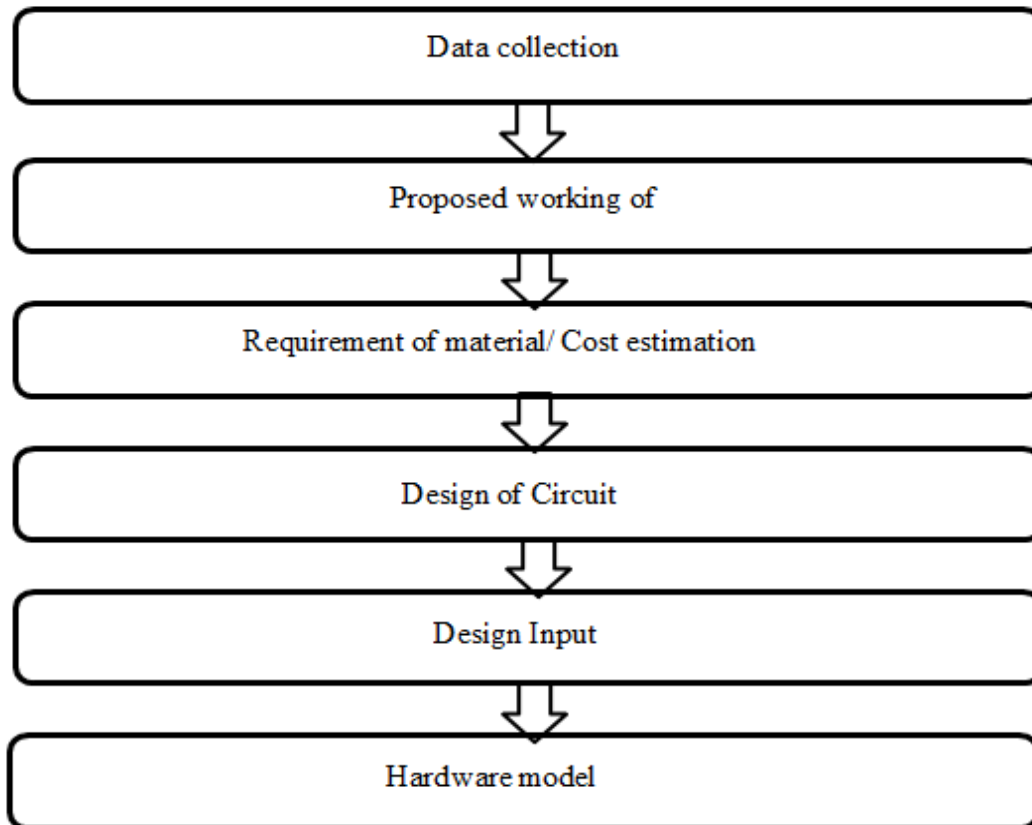
II.LITERTURE SURVEY:-

Sr.no	Project title	Year	Literature review
1	Elevator Safety Monitoring System Based on Internet of Things	1 august 2018	This study introduces the Da Vinci software architecture and real-time audio transmission technology. The system can be compatible with other systems and can be played directly through the mainstream media player for the transmission of data by using the standard RTP. The results of the system test indicate that the functions and performance of the elevator safety monitoring system have reached the intended target of the system design, completed the required functions, and have the value and significance for development.
2	Advance Elevator	26August2016	In case of water at ground floor, ground floor wire in the water. The water level will rise slowly, as soon as water touches the wire with logic 1, logic 0 will be given to the controller via inverter IC. Once the acknowledgement is given to the controller about water detection it will not allow the elevator to go on that floor, elsewhere will be in operating condition. Fire safety using Photo diode, water level detection at ground floor, also the Entry-Exit sensor counting persons leaving or entering; programming related to the Finger Print module has been completed. We have successfully conducted the above said definition and it's working.

Resources used:-

Sr no:	Resources	Specifications	Quantity
1	Personal Computer	Hp	1
2	Software	Arduino IDE	1
		Protel 99SE	1

III.METHDOLOGY



Approach:-

.Control: Controlling of an elevator can be done automatically or manually. In our project controlling is done automatically with the help of atmega 328 microcontroller

Overload Warning: When there is overload in the car then buzzer shall operate during this period and the door will be open till the overload is removed

IV.RESULTS

- 1) Buzzer is used to alert overload of the lift.
- 2) Display the result on lcd display.
- 3) Whenever there is overload in the lift, then buzzer shall operate during this period, then this weight of the person display ON LCD display
- 4) The door will be open till the overload is removed.

Discussion:-

- When more load is applied on elevator it can be stopped.
- Elevator can sustain approximately only 5 to 6 people's weight.

Applications:-

1. In hospitals, big buildings, towers, malls, hospitals, etc. for defining weight limit for people in elevator.
2. For protection of elevator motor from overload.



V.CONCLUSION

- 1) Elevator is essential to providing safe & reliable transportation.
- 2) This Elevator is most safety to use of elevator to person
- 3) Goal zero accidents.
- 4) In this elevator shows person weight & Door is open command

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