



Wisdom at the source of the Blue Nile

Bahir Dar Institute of Technology

Faculty of Electrical and Computer Engineering

Power and Control Engineering Stream

**Title: 'DESIGN & IMPLEMENTATION OF PATIENT
MONITORING SYSTEM USING MICROCONTROLLER'**

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Outline

- **Introduction**
- **Statement of the problem**
- **Objective of the study**
- **Scope of the project**
- **Methodology**
- **Significance of the project**
- **Expected Output**

Introduction

- Hospitals are an area that benefits from systems known to be microcontroller based applications.
- Hospital is functional with the sleeping of patients having little or no information about the patient status being treated
- patient status monitoring device helps nurses and doctors significantly to know the condition of the patient

Statement of the problem

- In our country in hospitals there is a big load on the doctors
- patients also encountered many problems
- When the doctor is in one room the patient who is in the other room may be in critical condition

Objective of the study

General objective

- Design and construct a patient monitoring system

Specific objective

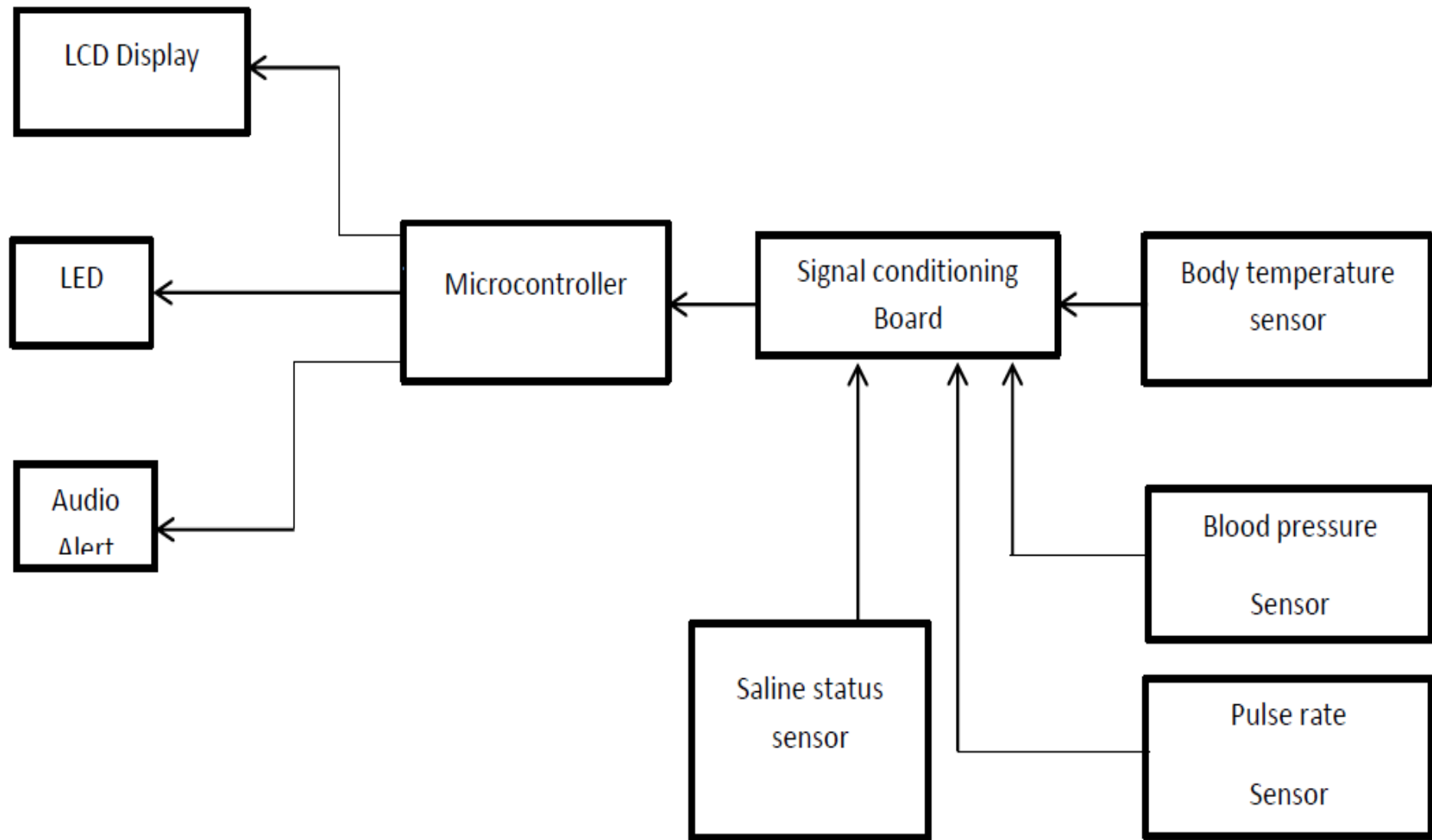
- To reduce work load of the doctor's
- To measure a patient internal parameters
- To give an audio alert to the doctor

Scope of the project

- Design robust a patient status monitoring system.
- Designing and preparing a simulation
- Write a micro c code program for the design
- Implement the project

Methodology

- Gather the required information
- The exact system components to be used will be calculated
- A code written in MicroC



Block Diagram Patient Monitoring System

Hardware and software used

- Body temperature sensor
- Blood pressure Sensor
- Pulse rate Sensor
- Saline status sensor
- Microcontroller
- Audio Alert
- LCD Display
- LED
- Protous.8 software
- MikroC Compiler

Significance of the project

- It helps nurses to serve the patient more carefully
- Doctor hears the alert and goes quickly to the patient
- Monitoring the patient's condition collectively and give a decision accordingly comforts the patients
- Easily monitoring different physical and mentally disable peoples

Expected Output

- The designed system solves the serious problems occurring on patients
- Reduce work load of doctors or nurse

THANK YOU