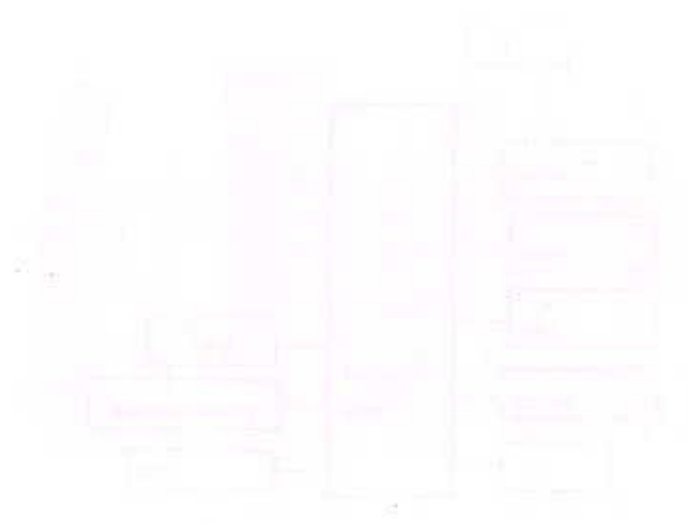


Mini Project Documents



The text in this section is extremely faint and illegible. It appears to be a list of items or a table of contents, but the specific details cannot be discerned.



Sinhgad Technical Education Society's

SINHGAD ACADEMY OF ENGINEERING

(Affiliated to University of Pune and Approved by, AICTE, New Delhi.)

S. No. 40/4 A, Near octroi Post, Kondhwa - Saswad Road, Pune - 411048.

☎ : (020) 26934441, 26934550, Fax : 020- 26934297,

E-mail : saeprincipal@sinhgad.edu, Website : www.sinhgad.edu

Department of Electronics and Telecommunication

Date: 15/02/2021

Notice

All TE students are informed to form the groups and select the topic for Mini Project. Register your groups and topic to Mrs. V M Sardeshmukh up to 18/02/2021.

Maximum students in one group are 3 students.

(Prof. V.M. Sardeshmukh)
ESMP Coordinator

(Prof. K. M. Gaikwad)
HOD, E&TC

Class

TEA -

Notice Board
TE (A)
15/2/21

Sinhgad Technical Education Society's

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☎ : (020) 26934441, 26934550, Fax : 020- 26934297,

E-mail : saeprincipal@sinhgad.edu, Website : www.sinhgad.edu

Department of Electronics and Telecommunication

Date: 22/03/2021

Notice

All TE students are informed to note that week 30/03/2021 to 02/04/2021 will be observed as internal submission and presentation week for ESMP. GroupWise presentation will be taken for Mini project.



(Prof. V.M. Sardeshmukh)
Mini -Project Coordinator



(Prof. K. M. Gaikwad)
HOD, E&TC

Class

TEA -

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Department of Electronics and Telecommunication

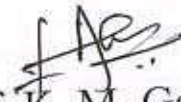
Date: 22/02/2021

Notice

All TE students are informed to submit the synopsis of respective topic on or before 26/02/2021



(Prof. V.M. Sardeshmukh)
Mini -Project Coordinator



(Prof. K. M. Gaikwad)
HOD, E&TC

Class

TEA -

Sinhgad Technical Education Societys				
Sinhgad Academy of Engineering Kondhwa				
Dept of Electronics & Telecommunication				
Group for TE Mini Project - Academic Year 2020-21				
Group No	Roll number	Name	Title of Mini Project	Guide
G1	ETTA001	JHA SAURABH BHAGWAN	GSM based notice board	VMS
	ETTA002	JYOTSHNA KUMARI		
	ETTA035	MANIJA KAMLE		
G2	ETTA003	PATEL AMAN BASHA	Bidirectional Visitor Counter using 8051 Microcontroller.	VMS
	ETTA004	SAMICHHA RANA		
	ETTA005	URWESH SUNIL CHAUDHARI		
G3	ETTA006	ATUL DHARNE	Short range radar system using 8051 microcontroller	VMS
	ETTA008	NIKHIL SONJE		
	ETTA025	SANKET MALLAWAT		
G4	ETTA010	RAHUL WARKHADE	Temperature Controlled DC Fan	VMS
	ETTA011	ANUP SARODE		
	ETTA039	SAURABH MURALIDHAR MAHAJAN		
G5	ETTA012	Aditya Malode	Gas Detection Using PIC	VMS
	ETTA021	ANIKET S.DUBEY		
	ETTA022	KHILARE SHAMBHURAJ SHAMRAO		
G6	ETTA013	TEJAS SHINDE	Encryption and decryption for Military	VMS
	ETTA038	TUSHAR PARMESHWAR SABLE		
G7	ETTA014	REWATI SADAFLE	Microcontroller based Overheat detector using Temperature Sensor with Buzzer Indication	VMS
	ETTA019	MAANAS Vhora		
	ETTA032	DURGA SUBHASHCHANDRA KARV		
G8	ETTA015	RUTUJA SAKHARE	Alcohol detector with buzzer indication using Microcontroller	VMS
	ETTA023	JAMADAR FIZA ABBASALI		
	ETTA009	SAINATH RASANE		
G9	ETTA016	SAHIL RAMTEKE	GSM based security system	VMS
	ETTA020	SHASHIKANT GUJAR		
	ETTA043	SAGAR DESH BHRATAR		
G10	ETTA028	ADITYA KAKADE	Automatic sanitizer dispenser with live covid-19 updates	VMS
	ETTA036	VISHWAJEET JAGTAP		
	ETTA042	ATUL YADAV		
G11	ETTA017	AADISH GONDHALEKAR	smart mirror using raspberry Pi	VMS
	ETTA026	ROHAN SHRIVASTAV		
	ETTA027	MUKUL SUNIL BISEN		
G12	ETTA033	DHANSHRI LONKAR	Water level controller using 8051 microcontroller	VMS
	ETTA040	MAHIMA KUMARI		
	ETTA041	BHAGYASHRI DESHMUKH		
G13	ETTA029	ADITYA KANIMAR	Student attendance using RFID and 8051	VMS
	ETTA030	AADITYA KIRAN KHANDKE		
	ETTA031	ABHIJAT THAKARE		
G14	ETTA037	AKASH BIRADAR	IoT Based Patient Health Monitoring System	VMS
	ETTA024	VAIBHAV BHALERAQ		
	ETTA034	SOHAM WADHONKAR		
G15	ETTA007	RISHIKESH LIMBKARI	Finger Print based Exam Hall Authentication System	VMS
	ETTA044	ANANT ZENDEKAR		
	ETTA046	DHANADE NILESH		
G16	ETTA018	KADAM UNMESH	Simple Programmable Robotiv Arm	VMS
	ETTA045	RUSHIKESH KHEDEKAR		
	ETTA047	SONAWANE		

Yoh
 Mrs. V. M Sardeshmukh
 ESMP coordinator.


 H. O. D.
 Dept. of Electronic &
 Telecommunications
 SINHGAD ACADEMY OF ENGG
 Kondhwa (BK), Pune - 48



CERTIFICATE

This is to certify that the project report entitled

ALCOHOL DETECTOR WITH BUZZER INDICATION USING MICROCONTROLLER

Submitted By

RUTUJA D. SAKHARE

EXAM NO: T150433015

FIZA A. JAMADAR

EXAM NO: T150433018

SAINATH H. RASANE

EXAM NO: T150433045

Is a bonafide work carried out by them under the supervision by Prof. Mrs V. M. Sardeshmukh and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Employability Skill and Mini Project in the Third Year of Electronics and Telecommunication Engineering.

This project report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Prof. V M Sardeshmukh

Project Guide

Dr K. M. Gaikwad

H.O.D

Dr K. P. Patil

Principal, SAOE, Pune

Place: Pune

Date: 13/06/21

External Examiner



CERTIFICATE

This is to certify that the project report entitled

Bidirectional Visitor Counter Using 8051 Microcontroller and Buzzer

Submitted By

AMAN PATEL
SAMICHHA RANA
URWESH CHAUDHARI

EXAM. NO: T150433042
EXAM. NO: T150433054
EXAM. NO: T150433067

Is a bonafide work carried out by them under the supervision by Prof. Mrs V. M. Sardeshmukh and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Employability Skill and Mini Project in the Third Year of Electronics and Telecommunication Engineering.

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Prof. V M Sardeshmukh

Project Guide

Dr K. M. Gaikwad

H.O.D

Dr K. P. Patil

Principal, SAOE, Pune

Place: Pune

Date: 13/06/21

External Examiner



CERTIFICATE

This is to certify that the project report entitled

LPG Gas Leakage Detection and Alert System

Submitted By

ADITYA MALODE
ANIKET DUBE
SHAMBHURAJ KHILARE

EXAM NO: T150433035
EXAM NO: T150433015
EXAM NO: T150433030

Is a bonafide work carried out by them under the supervision by Prof. Mrs V. M. Sardeshmukh and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Employability Skill and Mini Project in the Third Year of Electronics and Telecommunication Engineering.

This project report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Prof. V M Sardeshmukh

Project Guide

Dr K. M. Gaikwad

H.O.D

Dr K. P. Patil

Principal, SAOE, Pune

Place: Pune

Date: 13/06/21

External Examiner



CERTIFICATE

This is to certify that the project report entitled

GSM based Home Security System

Submitted By

SAHIL RAMTEKE
SAGAR DESHBHRATAR
SHASHIKANT GUJAR

EXAMNO:T150433052
EXAM NO: T150433009
EXAM NO:T150433059

Is a bonafide work carried out by them under the supervision by Prof. Mrs V. M. Sardeshmukh and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Employability Skill and Mini Project in the Third Year of Electronics and Telecommunication Engineering.

This project report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Prof. V M Sardeshmukh

Project Guide

Dr K. M. Gaikwad

I.O.D

Dr K. P. Patil

Principal, SAOE, Pune

Place: Pune

Date: 13/06/21

External Examiner



CERTIFICATE

This is to certify that the project report entitled

Automatic Fan speed control system Using microcontroller

Submitted By

RAHUL WARKHEDE
ANUP SARODE
SAURABH MAHAJAN

EXAM NO: T150433070
EXAMNO:T150433055
EXAM NO:T150433032

Is a bonafide work carried out by them under the supervision by Prof. Mrs V. M. Sardeshmukh and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Employability Skill and Mini Project in the Third Year of Electronics and Telecommunication Engineering.

This project report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Prof. V M Sardeshmukh

Project Guide

Dr K. M. Gaikwad

H.O.D

Dr K. P. Patil

Principal, SAOE, Pune

Place: Pune

Date: 13/06/21

External Examiner



Sinhgad Institutes

**SINHGAD ACADEMY OF ENGINEERING KONDHWA,
PUNE-411048**

**SAVITRIBAI PHULE PUNE UNIVERSITY
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION
ENGINEERING**

T.E. (E&TC) - 2020-2021

**PROJECT SYNOPSIS ON
"Temperature Controlled DC FAN"**

Submitted by

Sr.No.	Name	Roll no.
1.	Rahul Warkhede	ETTA010
2.	Anup Sarode	ETTA011
3.	Saurabh Mahajan	ETTA039

Guided by

Prof. V.M.Sardeshmukh

Introduction

Electric fan is one of the most popular electrical devices due to its cost effectiveness and low power consumption advantages. It is a common circuit and widely used in many applications. It is also one of the most sensible solutions to offer a comfortable and energy efficient. In fact, the fan has been long used and still available in the market.

Nowadays, the demand for accurate temperature control and air freshening control has conquered many of industrial domains such as process heat, automotive, industrial places or office buildings where the air is cooled in order to maintain a comfortable environment for its occupants. One of the most important concerns involved in heat area consist in the desired temperature achievement and consumption optimization. Fan can be controlled manually by pressing on the switch button. where in this method, any change in the temperature will not give any change in the fan speed. except the usage change the speed of the fan which is manually. So, an automatic temperature control system technology is needed for the controlling purpose in the fan speed according to the

temperature changes.

Many researches focusing on automatic temperature control system application in different fields will gain the benefits. For examples, an automatic temperature controller for multi element array hyperthermia systems, multi-loop automatic temperature control system design for fluid dynamics, design of automatic temperature- control circuit module in tunnel microwave heating system, the automatic temperature system with Fuzzy self-adaptive Proportional- Integral- Derivative (PID) control in semiconductor laser.

This paper will show how PIC16F877A microcontrollers can be used and applied in a real-world application. One practical use is to integrate a microcontroller in a temperature control system that can be used for automatically controlling a room temperature.

Literature Survey

Automatic controls play an ever-increasing role in a human way of life. Automatic control is vast technological area whose central aim is to develop control strategies that improve performance when they applied to a system. the distinct characteristic of automatic control is that it reduces the human operator. One such gadget is the fan. The fans are generally available with speed control, depending on the requirement the speed is set. Usually, when the temperature is high the fan set at high speed and at lower temperatures the fan is operated with lower speed. This is done manually using human. In this paper, an automatic control solution is suggested to control the fan speed. A circuit with LM35DZ temperature sensor, PIC16F877A microcontroller, brush less DC

motor and few of electronic components is designed and implemented to control the fan speed automatically. As an additional feature LCD is used to present the temperature and the fan speed. Finally, the designed system circuit is tested in many times and performed verywell.

Motivation

Controllers like pid ,Arduino ,89s52 are either costly or too complex.Also controllers like 8051 have less functions and don't have inbuilt adc.So we used pic microcontroller for AGM which is cost effective , less complex and has more functions.

ProblemStatement

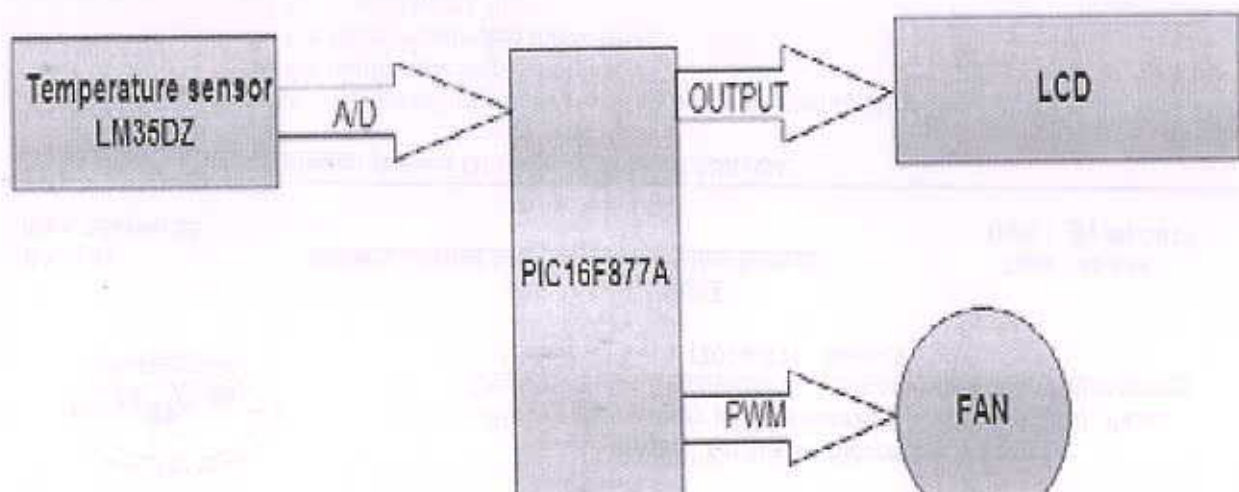
The problem happens when the ac fan is still functioning although in the event of cold weather. The function is uncontrolled and must be manually turned on and off or reduced the speed of the fan. Sometimes it can lead to high usage of electricity which in turn raises the electricity bill when the user forgot to switch it off. The system also does not have the capacity to adjust the room temperature regardless of the ambient temperature. To address the problem, the automatic temperature control ac fan that can control the temperature automatically is proposed. The advantages of such a system are less energy usage, and provides more convenient to the consumers.

Objective

The main objective of this study is to discuss about temperature controlled fan block diagram, working of each block and properties. At the end of this work student involved shall also be able to:

1. To control the speed of a dc fan.
2. To design a controller using temperature sensor.
3. To analyses the performance of the controller.

Block Diagram



COMPONENTS

The microcontroller PIC16F877A, is the heart of the system. It accepts inputs from the temperature sensor, LM35 which allows for the measurement of the current room temperature, then the controller will give the action to maintain the required fan speed. LCD is used to display the fan speed and room temperature.

Software Tools used :

- Proteus 8 Professional

Conclusion

This design and construction of fan speed control system is to control the room temperature using Temperature sensor and PIC microcontroller. As conclusion, the system which designed in this work was perform very well, for any temperature change and can be classified as automaticcontrol.

Reference

1. B. LEVĂRDĂ and C. BUDACIU, "The Design Of Temperature Control System Using Pic18f46201," 2010.
2. Data sheet, LM35 Precision Centigrade Temperature Sensors, National Semiconductor, Nov.,2000
- 3 .Microchip, Brushless DC (BLDC) Motor Fundamentals, July 2003
4. T. C. Lun, Microcontroller for Variable Speed BLDC Fan ControlSystem, Freescale Semiconductor.
5. Data sheet, 16 x 2 Character LCD.