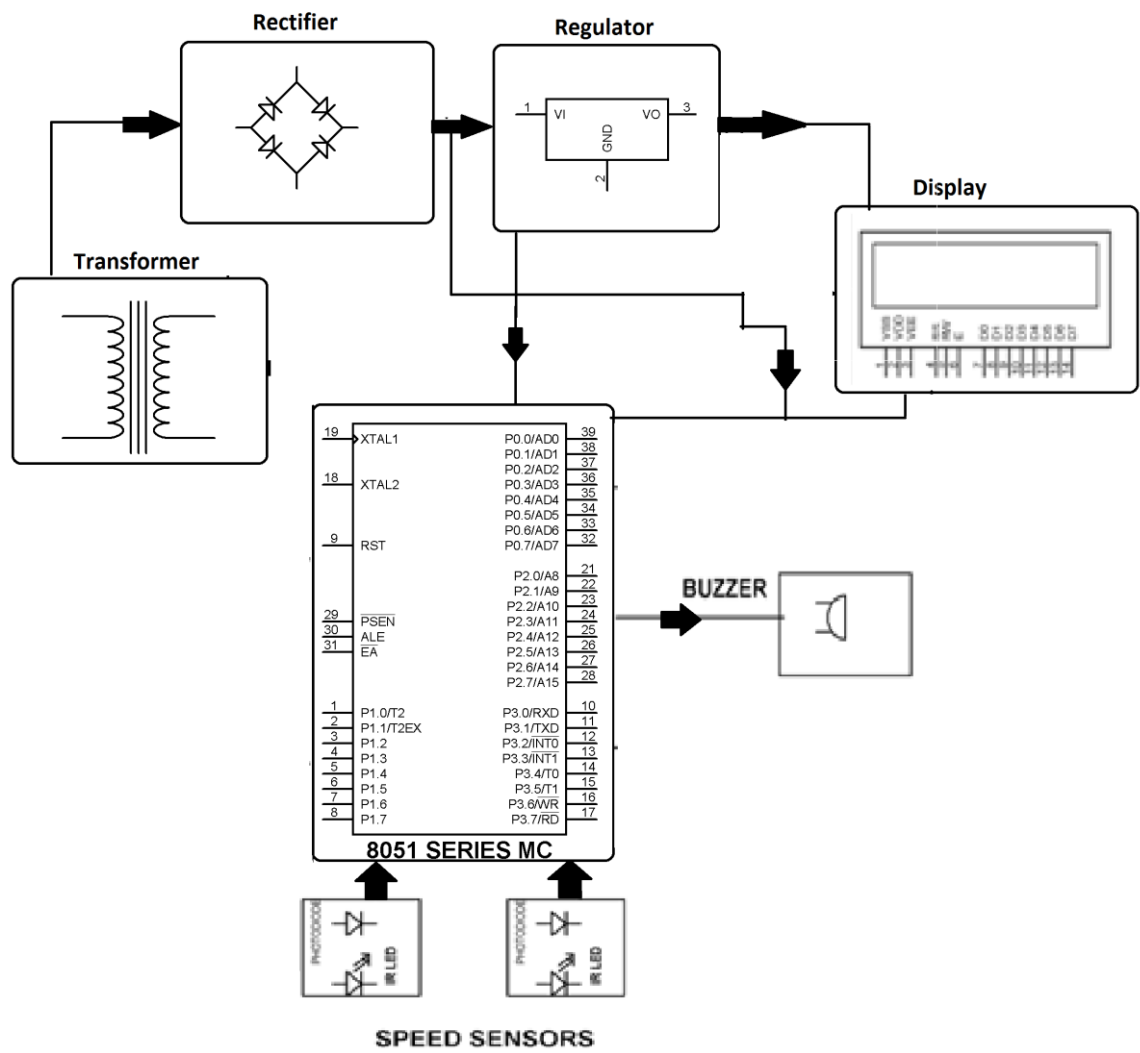# Human Speed Detection Project

The main aim of this project is to detect speed of human. Thus this system proves very beneficial in areas of sports. In order to record the speed of humans, this system uses a handheld radar gun pointing towards the person of whose speed is to be detected. In case of running race, it may be required to detect speed of the participants to take the decision or for some other reason. The proposed system calculates the speed by considering the time taken parameter to travel from start to end point. For this IR transmitter and receiver are installed on either of the road side on the set points. Calculation of the time taken by the human is done by the control unit. The speed of the human is displayed on a LCD display.

Block Diagram:

Rectifier

Regulator

1 VI VO 3

GND

2

Transformer

Display

		8051 SERIES MC		
19	XTAL1		P0.0/AD0	39
			P0.1/AD1	38
			P0.2/AD2	37
18	XTAL2		P0.3/AD3	36
			P0.4/AD4	35
			P0.5/AD5	34
			P0.6/AD6	33
9	RST		P0.7/AD7	32
			P2.0/A8	21
			P2.1/A9	22
			P2.2/A10	23
29	PSEN		P2.3/A11	24
30	ALE		P2.4/A12	25
31	EA		P2.5/A13	26
			P2.6/A14	27
			P2.7/A15	28
1	P1.0/T2		P3.0/RXD	10
2	P1.1/T2EX		P3.1/TXD	11
3	P1.2		P3.2/INT0	12
4	P1.3		P3.3/INT1	13
5	P1.4		P3.4/T0	14
6	P1.5		P3.5/T1	15
7	P1.6		P3.6/WR	16
8	P1.7		P3.7/RD	17

8051 SERIES MC

BUZZER

IR LED

IR LED

SPEED SENSORS

Hardware Specifications

- 8051 series Microcontroller

- Transistor

- Photodiodes

- IR LEDs

- Transformer

- LCD Display

- Buzzer

- Capacitors

- Resistors

- Diodes

Software Specifications

- Keil µVision IDE

- MC Programming Language: Embedded C