Temperature Measurement using AVR Microcontroller

Features

- Displays OF TEMPERATURE.
- Automatically detect the temperature.

4W and 1H

- What Temperature Measurement circuit to measure the temperature.
- Why To get to know about electric circuits better.
- When Whenever needed, one should be able to see the temperature.
- Where Wherever he is.
- How By using Atmega32 microcontroller and SimulIDE.

SWOT ANALYSIS

Strengths

- Real time temperature display.
- limited range Weakness
- Not able to show negative temperature.
- It's Very common. Opportunities
- Can add Alarm Threats
- Can get broken easily.

High Level Requirements

ID	Description	Catego	orv
			~· ,

HLR_01 Software	mimic the temperature sensor for simulation	
HLR_02	Understanding Atmega328	Software
Low Level R	equirements	
ID	Description	
LLR_01	Circuit Design	
110.03	Cinculation	

TEST CASE [HIGH LEVEL]:

ID	Description	Input	Output	Status
H_01	Generate	C file	Hex File	Implemented
H_02	Assemble Components	Search	Present in simulIDE	Implemented
H_03	Make circuit	Components	circuit	Implemented
H_04	Show time	Run	Displayed	Implemented

TEST CASE [LOW LEVEL];

ID	Description	Input	Output	Status
L_01	Change temperature	Change voltage	As needed	Implemented

OUT PUT:



