



## ABSTRACT

A microcontroller is a general purpose device that is mean to read data, perform limited calculation on the data and control is environment based on those calculation A Typical is a single Computer on a chip. The design incorporate all the features of found in a microprocessor CPU,ALU,PC,SP and registers. It also has added the other features needed to make a complete computer ROM, RAM parallel I/O serial I/O, Comment and a clock circuit. Advantages of the 8051 is that they are low power devices small and low cost, readily available and the way that is hardness interrupts High performance 8- bit microcontrollers are deployed in a number of application such as data networking, telecommunication, consumer products, computer peripherals, automotive systems and aerospace design.

For the implementation of the Project " **INDUSTRIAL AUTOMATION USING CELLPHONE**"the software implementation of the functionalities was made using kiel software, which enables the user to design the functionalities of the microcontroller on a software editor. This particularly enables the design engineer to give his own specification about the hardware to be used and the functionalities to be performed.

Along with it, another software ModelSim is used, which provides a platform to check the functionalities and program designed in the Kiel editor. This give a waveform representative of the input and output being specified in the editor by the design engineer.

The main aim of this DTMF Based Device Controlling System project is to controlling the house holding electrical devices like fan, electrical bulb etc. From any where we can control these devices by using mobile phones. This project most