



**REVIEW ARTICLE**

# Mobile Phone Controlling PC-A Review

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**Abstract**— *As all are familiar with both mobile phones and computers like home PC, laptops etc. and also all are having mobile phones with high or low prices. We know that a computer can be controlled by a user by using a client server basis. But I would like to share a new technology to control the computer system by using a mobile phone. We are connecting our mobile phones to laptops and PC's mostly to share information, but in this project idea we can control the PC with our own mobile phones. The project involves interfacing the computer hardware and software and the mobile phone so that the computer could be switched on and off using the mobile phone and also some of the computer tasks could be performed using the same phone.*

**Keywords**—*PCM Realization; Controlling devices; Optimization*

## I. INTRODUCTION

A mobile phone is a device that can make and receive telephone calls over a radio link whilst moving around a wide geographic area. It does so by connecting to a cellular network provided by a mobile phone operator, allowing access to the public telephone network. In addition to this, modern mobile phones also support a wide variety of other services such as text messaging, MMS, email, Internet access, short-range wireless communications [1] (infrared, Bluetooth), business applications, gaming and photography. Mobile phones that offer these and more general computing capabilities are referred to as smartphones. We have several options of connecting mobile phone to pc depending upon mobile phone features.

Most of the phones are connected via infrared to your PC. However, connecting with infrared to your computer does have drawbacks like very slow speeds and limitations. Bluetooth [2] is a faster technology than infrared. There are many advantages to Bluetooth that make it a good way to connect your cell phone to your computer. The first is that of the speed, next is the ease with which you can connect to your PC and start transferring files. The downside is that not all computers come equipped with Bluetooth connectivity. So, we need to buy a device for your computer that enables Bluetooth on your PC. They are easy to find and the cost is very low, in most cases. In some cases people connects via USB connectivity which offers many other benefits. All new computers come with USB, and most new phones offer USB connectivity. By using all these features there is chance of operating whole pc using mobile device.

## II. PREVIOUS WORK

The existing system is used for connecting the pc and mobile phones only to access internet as it became very easy and if you use internet data card it becomes more easy option to get high speed internet connectivity at decent cost. For the wireless communication, The Bluetooth can be a great way to connect to internet and available all facilities for it. We can also use the mobile phones as the wireless router which is a good way to take advantage of the high-speed Internet connections by simply turning your cell phone into a wireless router [4] [6] requires the use of an ad hoc wireless network, which requires a single computer to be, designated the host.

The connection begins by sending SMS to mail id from mobile phone. Basically, mobile phone service provider allows to send Mail through SMS service and that SMS contains "SHUTDOWN" (Command to shutdown machine). If the system is switched on and opened Microsoft Outlook, where Outlook is set to check mail account every 60 seconds. The listener application is written in VB. This application will be running in the system. This listener will check if any new mail is arrived to the inbox. If any new mail received then it will open the mail and checks the message is sent from the mobile phone. If it is sent from my mobile phone then it will read the command, which I sent. If the command is "SHUTDOWN" then it will fire shutdown event to the Operating system and the Operating System will shut down the PC.

## III. OUR WORK

By using all the features of the smart phones, we can connect to the pc in different ways. We can collect data, maintain info, transfer data etc. from pc to mobile phone and vice versa. There is extra feature that we can access internet from mobile phone to pc. Thus by using all the features we can control the pc from mobile phone. As this thought is araised to use the technology for more ahead and proceed with the ideas. The pc can be controlled from far using the mobile phones. We can shut down or check mail or read file etc. the pc from far just by sending a sms from mobile phone.

We have run this example by installing a Microsoft outlook 2010 version and run VB application. Since I need additional component in this application I installed MSXML 3.0 parser in pc. I have also checked this application by using some of the commands such as SHUT DOWN, FILE LIST, SEND FILE, WHO, NETSEND, CHECKMAIL, READMAILHEADER, READMSG etc. and it worked correctly without any errors.

## IV. ARCHITECTURE

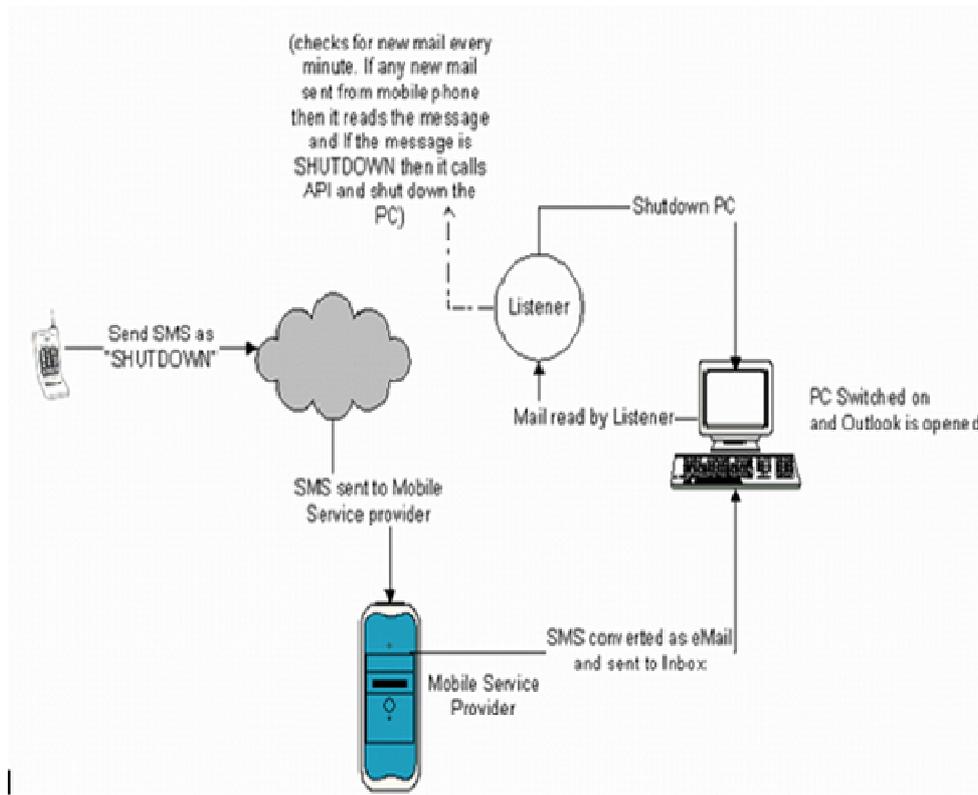


Fig.1 Controlling PC from Mobile phone

## V. RESULTS

This application is designed to provide the user easy capability to administer a PC access from his mobile device. This project is to enable the mobile users to control his PC information at their fingertips. This project involves flow of data on the Wireless Application Protocol. The application must work properly without problems on all targeted devices; power supply and network support and also considers limitations of mobile devices.

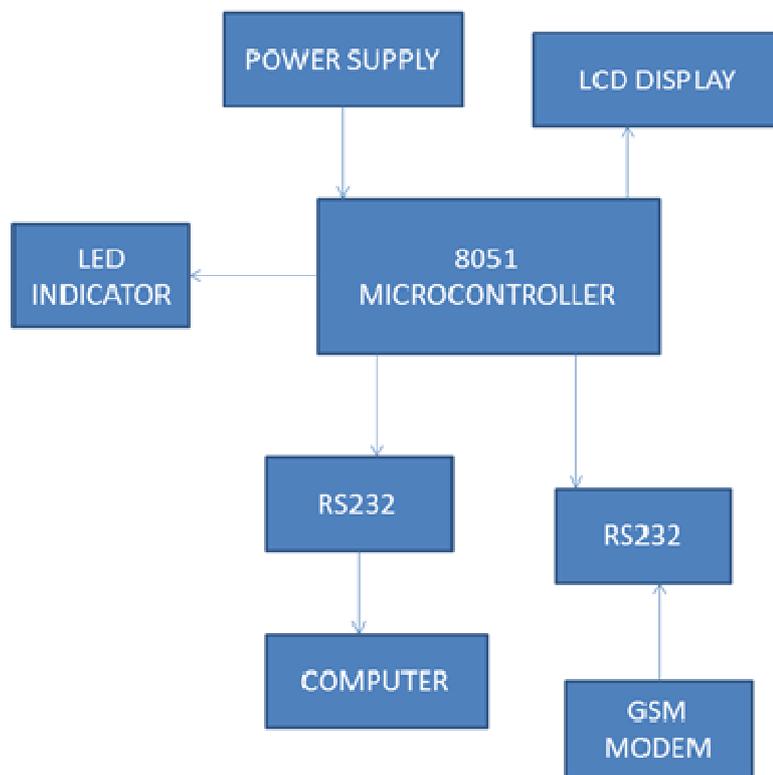


Fig.2 Block Diagram of Mobile Phone Controlled PC with Control Electronic Devices

Our work consists of a mobile phone for controlling the PC and electrical devices from a remote location. It consists of Microcontroller based control system attached to the PC. A GSM modem [3] [5] is connected to the microcontroller as input device. GSM modem receives the respective message from the mobile phone and converts them into a four-bit signal.

## VI. CONCLUSION

As we all know that we can control a PC from another PC. This is an initial approach to control PC using mobile phone. Not only controlling a PC we can get report from PC, File list, PC status, any other information stored in PC and much more. The Microsoft outlook is available in all the computers where the software of this technology can be used very easily. The people who can't afford money for smart phones can be capable of using these type technologies in an easy way.

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### Authors Bibliography



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