Voice Controlled Home Automation System

DECLARATION

This project proposal is submitted to the Information And Communication Engineering, Noakhali Science And technology University, Noakhali,Sonapur. So, I, here by, declare that this project report has not been submitted elsewhere for the requirement of any kind of degree, diploma or publication.

Rumon Paul

B.Sc Student of ICE, NSTU

Roll No : ASH1411040M

Session : 2013-2014

ACCEPTANCE

This project report is submitted to the Information And Communication Engineering, Noakhali Science and technology University, Noakhali, Sonapur.

(Sultana Jahan Soheli)

Assistant Professor

Information and Communication Engineering

Noakhali Science And technology University

Sonapur - 3814, Bangladesh

ACKNOWLEDGEMENT

First of all I would like to thank Almighty Allah, the most gracious, most merciful and the supreme power of the universe, who enabled me to complete the project "**Voice Controlled Home Automation System** ".

I am deeply grateful to my project supervisor **Sultana Jahan Soheli, Assistant Professor, Department of Information & Communication Engineering, NSTU,** for his endless support, inspiration, encouragement, constructive criticism and suggestion throughout this work. His strong leading and advice really help me a lot to start and do the project.

Sincerely

Rumon Paul

ABSTRACT

Home automation refers to the automatic and electronic control of household appliances, features and activities. The most important device of present age is mobile phone. At present Android mobile is very common and very important part of our life. Using this device in controlling and surveillance work makes our life easy and comfortable. So, this project is done in such a way we can have the control of our home through a single device. The system is composed of hardware, communication and electronic interfaces that work to integrate electrical devices with one another. The project will come in handy for the disabled and elderly people. This thesis is aimed to modernize and develop a voice-controlled home automation system which allows to control all electronic devices in an apartment by voice command, provides safety by detecting fire, detects suspicious movement and also helps the owner with personal assistance. Moreover, it provides security by automatic door controlled by fingerprint sensor. Performing all these tasks with a single Android device makes everything faster because the Android makes SMS communication. It allows a person to control appliances from a remote location over the internet. The user can easily verify and close machines left on in one's absence which will help to save energy. There are many types of Home Automation Systems like Bluetooth Controlled, Internet Controlled, RF Controlled, Remote Controlled (IR Remote) etc. Each type has its own advantages and disadvantages. In this project, we have designed a Voice Activated Home Automation system, where different appliances are controlled by sending a Voice Command.

Table of Contents

List of Figures

List of Tables