

WIRELESS DEVICE CONTROL THROUGH CELL PHONE

Introduction:

Think about a home appliances control by wireless protocol such as GSM which would be controlled by mobile phone. By giving a sms command, to light on /off you to your destination. The sms command recognition algorithm we used could be applied to daily life; for example it would be most helpful to disabled people to perform their daily work. We created a secured operation using various analog circuit designs with the Microcontrollers.

Objectives:

This system is divided into two modules,

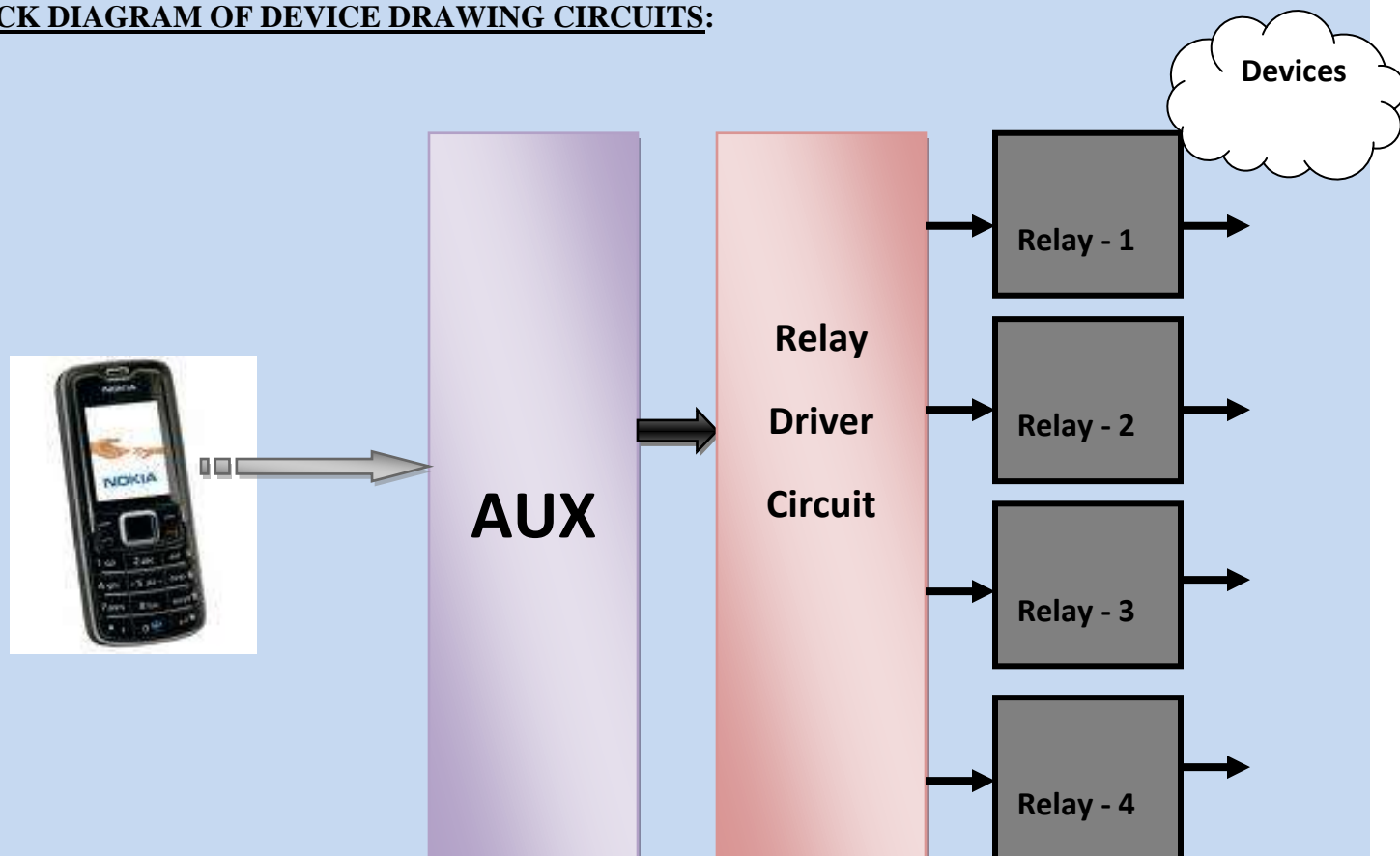
- 1) GSM- Fbus protocols,
- 2) Control unit

This system will detect sms command and drives the devices by through Microcontroller.

This communication will under the Fbus protocol using SMS protocols.

It will store current mobile number (who send) and do auto SMS delete.

BLOCK DIAGRAM OF DEVICE DRAWING CIRCUITS:



- **Hardware/Software tradeoffs:**

The microcontroller part interfacing the relay driver module accompanies the hardware considered in this project. So here the relay drives the devices that are to be controlled by our Gsm protocol.

The protocol codes embedded in the controller by specific way to receive the sms command and to process it and to control the devices. We wrote all in embedded C which made them very efficient and significantly improved our performance.

Software/Hardware Design

1) Software Description

The Basic algorithm of code is to check the sms command input at a rate of 115200 bps. According to the sms command compared and executed by means of F-bus protocol.

GSM- Fbus protocols

To write SMS program in Embedded C, The function is Read, Write and Delete

Methodology of this Project:

1. GSM (Fbus Protocol)
2. I2C - PROTOCOL