**BUS IDENTIFICATION DEVICE FOR THE BLIND PEOPLE**

**AIM:**

The main aim of this project is to develop a system which can help find the bus at bus stop for blind people.

**PURPOSE:**

The purpose of the project is to provide a bus detection system for blind people by assigning different tag to different bus with the help of RFID (Radio Frequency Identification) technology.

**BLOCK DIAGRAM:**

**MICRO**

**CONTROLLER**

**(AT89S52)**

**VOICE IC**

**POWER**

**SUPPLY**

**RFID**

**READER**

**SPEAKER**

**POWER SUPPLY:**

 **Regulator section**

 **Filter**

**Circuit**

 **Bridge**

**Rectifier**

**Step Down**

**Transformer**

**DESCRIPTION:**

Generally, journey in a bus is a safe and comfort factor, but due to increase in number of busses and passenger its going be tougher now a days and it will be more difficult for blind people to travel in bus so with this project, we can make a system which can help blind people to find the bus at the bus stop as they cannot able to see which bus is coming on the bus stop.

By providing a device which can help them to know which bus is coming on bus stop. In this project we have microcontroller, RFID reader and voice IC for voice announcement with speaker as basic blocks. Whenever the bus come to stop the RFID reader will be reading the tag (which is given to every bus for particular route) and depending upon the tag it will give voice intimation by using speaker the blind person can know the bus number.

**SOFTWARE USED:**

1. Keil μvision
2. Embedded c
3. ISP

**HARDWARE USED:**

1. MICRO CONTROLLER(AT89S52)
2. RFID READER
3. VOICE IC
4. SPEAKER
5. POWER SUPPLY

**RESULT:**

Hence, by using this project we can develop a bus detection system for blind people.