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A PROJECT REPORT ON

"ARTIFICIAL VISION SYSTEM FOR BLIND WITH NAVIGATION SYSTEM USING GSM"

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BACHELOR OF ENGINEERING
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ABSTRACT

A location and tracking system becomes very important to our future world of pervasive computing, where information is all around us. Location is one of the most needed information for emerging and future applications. Several techniques are proposed to get location information in buildings such as using a GSM. Blindness is more feared by the public than any other ailment. Artificial vision for the blind was once the stuff of science fiction. But now, a limited form of artificial vision is a reality Now we are at the beginning of the end of blindness with this type of technology. In an effort to illuminate the perpetually dark world of the blind, researchers are turning to technology.

Orientation and mobility are tremendous problems for Blind people. Assistive technologies based on GSM could provide them with a remarkable autonomy

The present costly system utilizes several technologies for the guidance including a GPS receiver attached to a Pocket PC to get location information, an RFID reader to get information from embedded RFID tracks, an Infrared sensor to get a traveling direction. The improved prototype replaces the Pocket PC with a GSM mobile phone.

The Blind Person types some code like 1*2# in the keypad. This code is received by the MCU so it sends the message to the server. From the server it gives a call to the blind person that you have taken the shortest path by taking this bus number. The sensor has to make alarm sound that for obstacle collision