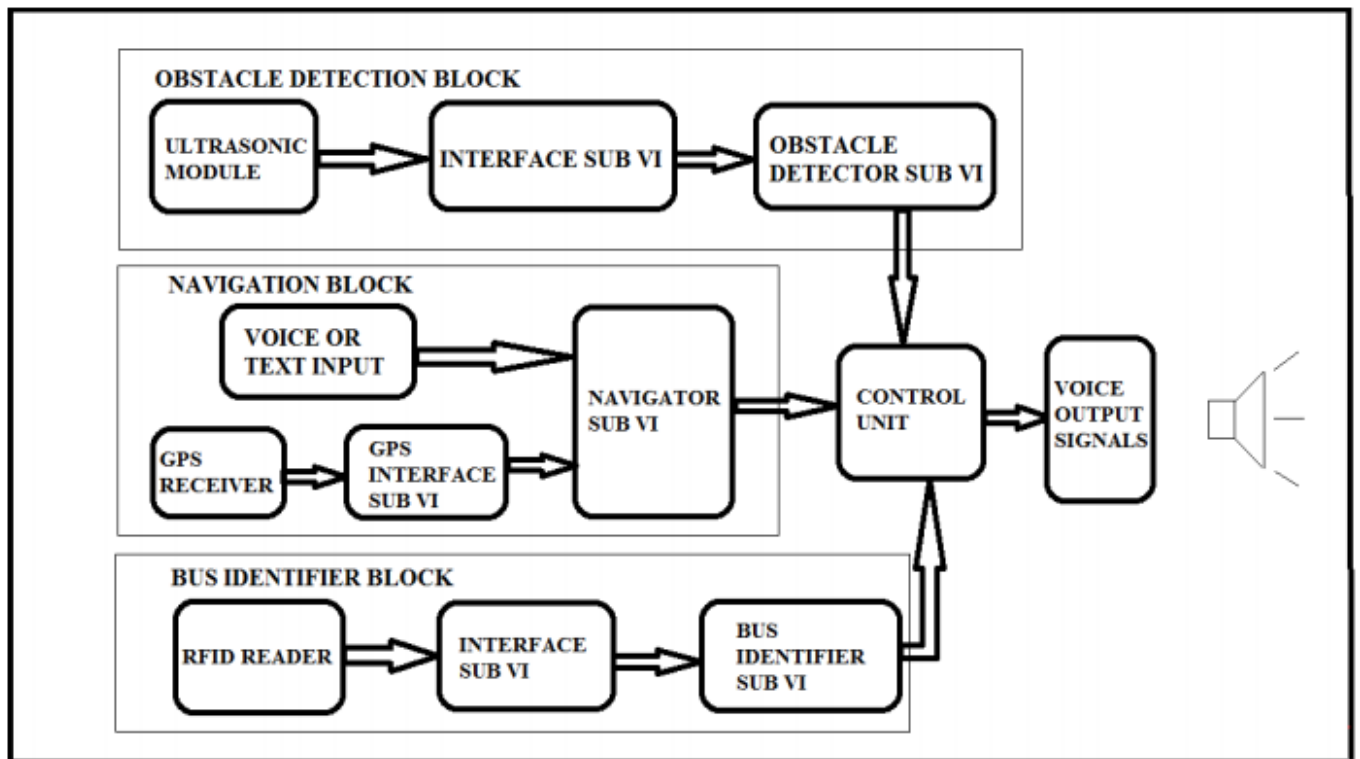


**Department of Electronics and communication Engineering**

<b>PROJECT TITLE</b>	<b>GPS BASED LABVIEW SUPPORTED NAVIGATION FOR VISUALLY CHALLENGED</b>
<b>STUDENT NAMES</b>	Deepika.K Mekhala.S Naveenkumar.R
<b>SUPERVISOR</b>	Mr.G.Gurumoorthy ,Assistant Professor
<b>OBJECTIVE</b>	The objective of this project is to support the visually challenged people. Features that include ultrasound sensor and RF tag and obstacle detection and also bus identification.
<b>ABSTRACT/IDEA</b>	Navigation aids for the pedestrians are considered new research challenges. The visually challenged people are particularly concerned, because of their need to detect and avoid obstacles, as well as to themselves and known as well as unknown environments. The modeled project guides the visually impaired people to move independently. This prototype acquires the current location of the user (visually impaired person) from the GPS system and the destination is fed to the device by the user. The special of this project include Ultrasonic sensors and RF tags and readers for obstacle detection and MTC bus identification respectively. Thus the three functionalities are integrated under one program.
<b>TECHNOLOGY USED</b>	1. NI LAB VIEW Technology 2. GPS and RFID Technology

<b>WORKING STEPS</b>	<ol style="list-style-type: none"> <li>1. Obstacle detection</li> <li>2. Navigation</li> <li>3. MTC bus identification</li> </ol>
<b>REQUIREMENTS</b>	<ol style="list-style-type: none"> <li>1. Obstacle detector</li> <li>2. Navigation sub system</li> <li>3. NI LAB VIEW</li> </ol>

## SYSTEM ARCHITECTURE



<b>BENIFITS</b>	<p>Easy programming, Less time consumption, Easy Interfacing, Fast Code compilation, Availability of Large libraries, Code re-use, Parallel programming, Ecosystem, User community</p>
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## SCREEN SHOTS

