Talking Keypad for blind

Introduction

   In this project we develop keypad for blind. Keypad view is shown in following figure. When blind person bring finger on the key, keypad will pronounce the keypad character. If he/she wishes the same character then the person will touch the keypad on same area and character gets pass to system.

   This project is one effort so that blind people can be able to operate digital gadgets. For experimental purpose we will develop keypad as shown in figure. Sensor with transmitter receiver will be arranged as shown in fig. The circuit with microcontroller is used to sense the matrix array developed by sensor.

	TX1	TX2	TX3	TX4	TX5	TX6	
TX7	A	B	C	D	E	F	RX7
TX8	G	H	I	J	K	L	RX8
TX9	M	N	O	P	Q	R	RX9
TX10	S	T	U	V	W	X	RX10
TX11	Y	Z	1	2	3	4	RX11
TX12	5	6	7	8	9	0	RX12
	RX1	RX2	RX3	RX4	RX5	RX6	

Keypad for blind

Block Diagram

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┌──────────┐      ┌──────────┐      ┌──────────┐      ┌──────────┐
│ PC With  │ ◄─── │ Arduino  │ ◄─── │  Diving  │ ◄─── │  Keypad  │
│  Matlab  │      │  Board   │      │ Circuite │      │          │
│ Program  │      │          │      │          │      │          │
└──────────┘      └──────────┘      └──────────┘      └──────────┘
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