Imagine how fascinating it would be, if you can control machines/devices through your voice commands. Here we introduce our voice controlled robot that is fully functional through human voice commands. It accepts all the words in English in male as well as female voices.

High torque motor at arm joint gives it ability to lift load of 200grams.

The controlling part of kit is based around 8051 microcontroller, equipped with motor drivers and ISP facility to program it on board.

Features of mechanical assembly:

- Lead screw arrangement for gripper
- Unique set of shaft couplers
- Rubber tracks for extra traction
- 4 wheel assemble extension for better stability

Features of Robot Controller:

- 8051 Core NXP P89V51RD2
- On-board motor drivers, for driving 4 DC motors or 2 stepper motors
- On board level converter for serial communication
- On board power regulator
- 16X2 LCD screen
- Terminal block for easy connection of motors
- Protection against noise and back EMF
- Protection against wrong polarity wiring of battery/power supply
- On-board LEDs for debugging and testing

Package Includes:

- Microcontroller: NXP 89V51RD2
- Pack of essential electronic components and ICs
- Robot Controller PCB:1
- Powder coated Aluminum partd1
- 100 rpm,12VDC Geared Motors :3
- 5 rpm,12VDC Geared Motors :3
- Plastic wheels:4
- Rubber track belts:2
- Power supply components: 1 set
- Pack of Nuts and Bolts:1
- Manual in CD

Working: The system consists of microcontroller that is connected with a computer via serial port. Over computer a special program runs that is being developed by Technido. This software receiver voice signals from microphone and process them in order to recognize the word. According to received word software sends signals to microcontroller in a predefined protocol. Upon reception of signal from computer microcontroller transmits these signals wirelessly to mobile platform.

Note: Specifications are subject to change.