

## **DHWANI-The voice controlled bot.**

- ❖ It is a bot which receives signals using voice commands .
  - ❖ It processes the incoming signals then publishes them on motors or any other electrical components.
  - ❖ The processor used would be that of laptop.
  - ❖ A similar project was made last year ,but it had some problems like it would travel some distance and then stop.But this time we would precisely define distance which the bot would move.  
For eg.:Giving a command "Forward 10" will make it move forward by 10 meters.
  - ❖ The software which we would use ,most probably would be “CMU SPHINX” .
  - ❖ The bot would also make use the ‘XBEE’ module of arduino .
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- ❖ **Week 1**(5th May -11th May):1.)Learn to work with Arduino.  
2.)Learn voice processing and noise removal.
  - ❖ **Week 2**(12th May -18th May):1.)Visit Lammington to bring the components required..  
2.)Make the SolidWorks Design.  
3.)Complete the mechanical work.  
4.)Start coding the bot.
  - ❖ **Week 3**(19th May -25th May):1.)Complete coding.  
2.)Start **DEBUGGING**.
  - ❖ **Week 4**(26th May -1st June):1.)Completing the Electrical board.
  - ❖ **Week 5**(2nd June -8th June):1.)Make additional features available.  
2.)Make it available for submission.  
3.)Do the documentation.
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## **COMPONENTS REQUIRED:**

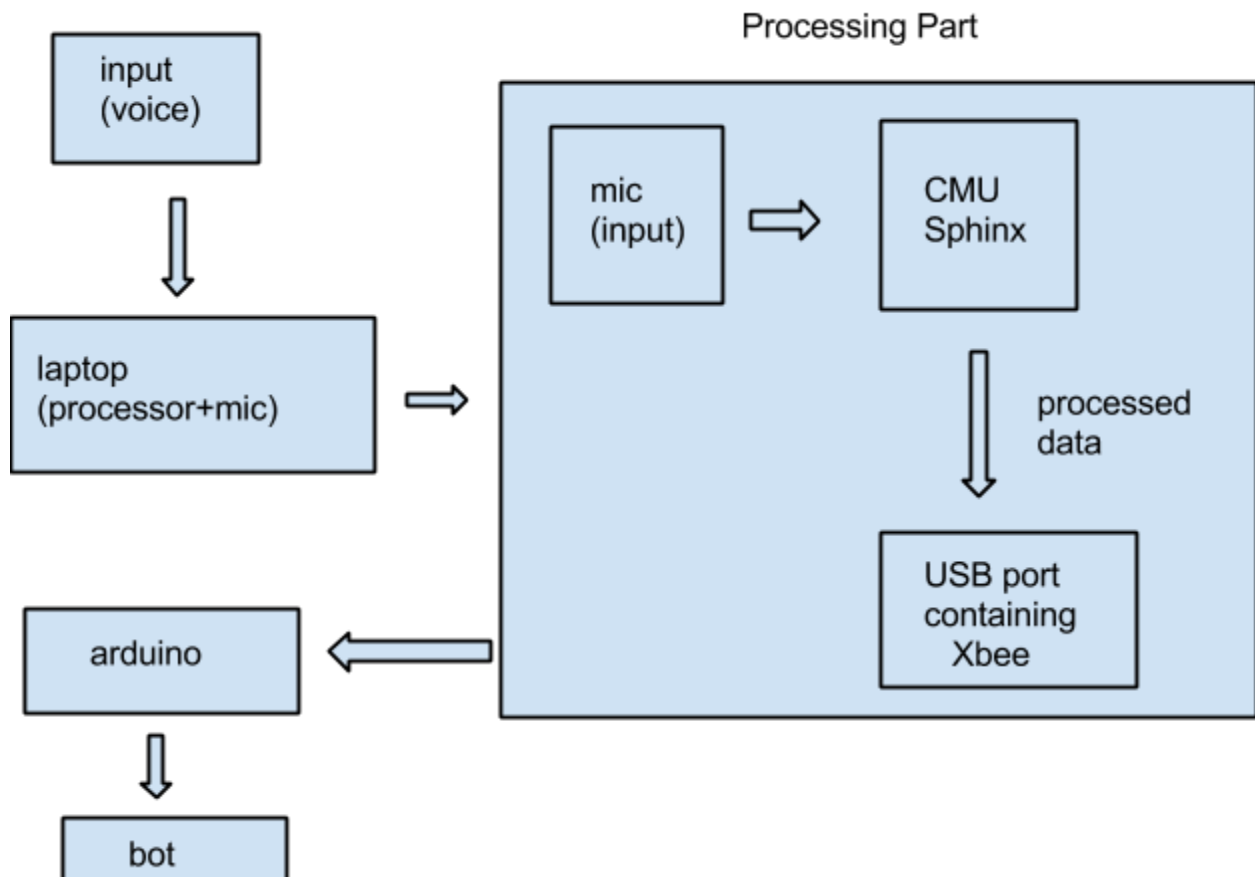
- 4 DC motors.
- Sensors.
- Arduino Atmega 328
- Lead Acid battery
- Ic's - L293D , 7805.
- Electronics : Wires , PCB , Heat Sink etc..
- Mechanical Parts : L-clamp , Chasis , Wood , Cutting materials , Screw drivers etc.
- Misc : Gums , DST , Tapes etc

- Extra components related to processing may be added later.

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## **WORKING FLOWCHART**

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## **Further initiatives**

If time permits we will try to add more features like camera or may a speaker.....

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