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Voice Controlled TV

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Voice Controlled TV

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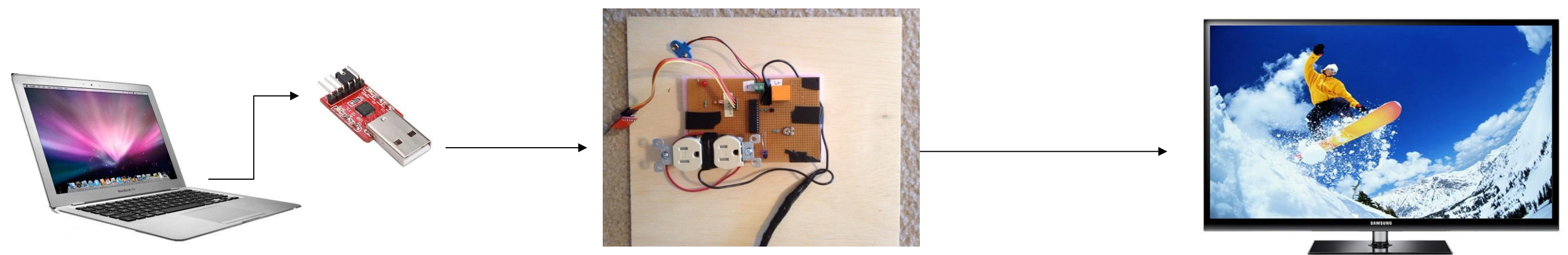
Faculty Advisor: Dr.B.G.Grossman, Dept of ECE, Florida Institute of Technology

Overview

The voice controlled TV as we are designing is a system that can recognize voice commands and is independent of any speaker and can control a Television. There will be some keywords that are selected for the system to operate like TV ON and TV OFF etc. and when these commands are given to the system; the system commands the TV to do the same.

Project Specifications

Sketch



Hardware:

- ❖ System is controlled by voice command
- ❖ Voice commands are decoded and sent a control character to the micro-controller through a USB to serial converter.
- ❖ Microcontroller: The Atmega8 microcontroller
- ❖ Relay for switching TV ON/OFF
- ❖ IR encoder for controlling TV volume and channels.
- ❖ USB 2 serial converter for communication with laptop.
- ❖ Battery: 9V 1A battery/9V 1A power supply

Voice Controlled system

Software:

- ❖ Microsoft speech SDK is a speech-processing library provided by Microsoft and voice control has been done using this library.
- ❖ This library provides two API's.
 1. Speech Recognition.
 2. Text to speech Conversion.

Features

- ❖ Talking is the easiest ways to communicate with various appliances.
- ❖ It can respond to everyone's voice.



NORTHROP GRUMMAN



Engineering & Science
Student Design Showcase
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