

Voice based Appliance Control

Features

- ▲ Appliance control with voice commands – '1' for ON, '0' for OFF
- ▲ The voice commands can be spoken by any speaker – they are speaker independent
- ▲ Needs quiet surroundings for proper recognition of voice commands



Hardware

- ▲ Arduino UNO board based on the 8-bit ATmega328 microcontroller working at 16 MHz
- ▲ Voice recognition capability is added by using the Easy VR Arduino shield which can recognize a set of speaker independent commands and can be trained to recognize speaker dependent commands
- ▲ Appliance control using GRIET's Triac shield
- ▲ UART interface between microcontroller and Easy VR shield

Firmware

- ▲ Based on the Arduino programming language
- ▲ Uses the arduino code template generated by Easy VR's commander software
- ▲ The Ethernet library uses the SPI library of Arduino- SPI.h