The Brain Wave App

Just think and control!

Team Members: Mrunal Shah
Richard Roman
Faculty Advisor: Dr. David Daut

Flow Chart

Project Description

• Harness Brain waves and convert them into actions.
• Provide a new way to interact with your surrounding.
• Help Paralytic patients communicate just by using their thoughts
• Control Television just by thinking.

Technical Details

• The Emotiv Epoc EEG headset reads brain waves, and relays them to the Emotiv software (included with headset) installed on a computer through wireless transmission.
• Mind Your OSC’s (free, open-source program) converts the information outputted by the Emotiv software into OSC packets.
• The custom software (written in Processing) interprets the packets and decides whether to send or read tweets, and what information will be sent to the Arduino.
• The Arduino will either light the tweet recognition LED, or send an infrared signal to the television.