

Automatic Music Transcriber

Function

Take audio musical input and determine what notes or chords are being played. Display results to user.

Software Components

- Algorithm for determining notes from audio input
 - Possibly AI
 - Possibly hard coded algorithm
- Code to display results to either an LCD screen or phone screen

Hardware Components

- Arduino
- External Microphone
- LCD screen

Anticipated Challenges

- Identifying chords
 - Removing background noise
 - Accurately determining the composition of a multi – note chord
- Converting microphone input into usable data

Evolutionary Prototype

