

6.111 Project Checklist

Chess Module – Michael Kuo

Keyboard Encoder

- Demonstrate Keyboard->ASCII->Display with backspace capability
- Encode ASCII to Chess Engine signals

Chess Engine & Move Checker

- Allows user to make only legal chess moves
- Allows user to verify move
- Properly engages in handshaking procedure with voice recognition module

Graphics

- Display chessboard and chess pieces
- Displays text from keyboard and Chess Engine

Voice Recognition Module – Varun

DTW System Controller

- Detects valid audio samples from incoming audio stream
- Streams template training audio and input audio to correct DTW Engine
- Decides which command was issued by finding the minimum “distance” values returned from DTW engines
- Outputs correct move order to Chess Module

DTW Engine

- Compares input audio stream to template audio stream
- Returns distance metric of input stream to template to DTW System Controller