Objectives:

Basic

1. Learn How to use a chess engine (STOCKFISH)

2. Learn how to use chess engine in matlab

3. Make a CNC machine

4. Control the CNC machine with Matlab into manipulating pieces

5. Make a control interface/Gui for playing chess

Advanced

6. Learn Voice processing

7. Play with voice commands against the CPU

Abstract

There are two sides, human player who plays against the machine. On the machine side, the brain is a chess engine, and there is a XY plotter (cnc mechanism) which implements moves by a mechanical gripper. The human player will use voice commands and allow the machine to execute the moves for him. All the processing is done on Matlab.