

6.111 Project Proposal

Being able to hear what is on sheet music is very helpful to musicians just beginning to learn a piece. Having auditory input can help people learn notes and rhythm faster and correct current mistakes. To make the transfer of sheet music to sound convenient, we propose a digital music reading machine. This project will take a picture of a sheet music, process the image, and play the notes back to the user. There are two main parts to this project; note recognition and audio playback. This project will start with the reading of simple rhythms, notes and key signatures. If time permits, this project will evolve to read a score, notes that do not lie on the ledger lines, and music with accidentals. A user interface will allow the user to input the key signature and the tempo of the piece before sight reading occurs.