Rocco DiVerdi

Manik Singh Sethi

SoftDes Mini Project 4 Project Proposal

Main Idea: Create a Theremin device using webcam as an input. Feature tracking as an input and relating audio output will be explored. At minimum, we would like to have a fist or open hand provide clear enough indication in two axes to output sound. We will try to incorporate 3 axes output and/or 3d representation of the hand movement at the end of the program. Other possibilities include different functionalities for different finger motions/hand orientations.

Learning goals – comfortability with OpenCV, audio outputs, etc. general coding practice.

Libraries – OpenCV, not sure how to go about audio output.

Mid-project check in – be able to track the location of a fist/hand

Risks – being able to accurately recognize and track motion of a hand, appropriate sound outputs