SAMMS

(Sound And MultiMedia Systems)

Initial:

This project will be an algorithmic prototype of the MultiMedia aspect of the system. The focus of this project is to create for distinct gestures. Have the computer recognize and understand them via gesture recognition algorithms. Beyond that I will be attempting to get the computer to use these four distinct gestures to change words on a screen.

The four gesture will be Verse 1, Verse 2, Chorus and End.

Overall:

Objective:

The overall goal is to create an AI program that can ultimately replace the need for both Multimedia and sound personnel in the back of a church. Part one would be done by automating the process of going through the songs by the computer, through using a camera system, reading the hand signals given by the worship leader. Part 2 would be to use a digital sound board to create a sound system that can learn and anticipate the needs of its users to an almost telepathic degree. The idea is to eliminate the lag time it takes for a human to adjust to the necessary changes as well as eliminate the need to recruit and train the limited number of personnel needed to sufficiently run the backend of any small to medium sized church.

Part One:

The first part of this will be to teach an AI platform 5 basic hand signals. Verse 1, Verse 2, Chorus, Bridge and End. The idea is to use some form of facial recognition algorithm but reformat it to recognize hand signals rather than faces. Using tools like planning center online, I can help the program learn a sense of a service timeline and know when to put up and take down the announcements.

Part Two:

In this part the objective is to teach an AI platform how to become an audio engineer. In addition the platform will be using facial recognition as well as RF tags on individual microphones and in combination of the two automatically adjust the individual settings that each person prefers. As well as ensuing that the groups harmonics are at their best. This will include the band as well as the singer on the stage.