Hardware implementation of a karaoke scoring machine.
Design Objective

To create a concrete method of judging karaoke competitions without the need of judges which may be bias against the singer or the type of music being mimicked.

Design Milestones

- Opal Kelly Board Familiarity 01/29
- High Level Behavioral Model 02/05
- Hardware Interface Design 02/26
- User Interface Design 02/26
- Hardware Design Development 03/26
Recent Tasks Completed!

- Chose and Met with a project advisor/professor
- Ran through sample code and examples
- Create a source code repository, completion of phase 1!
Create Test Vectors in MatLab

Design Program that will send samples to FIFO at Audio Data Rate
Upcoming Tasks

- Testing of FIFO program
- Loop back Test and finalization of program design
Design Progress

- Run Through Sample Code and Examples
- Create a Source Code Repository
- Completion of Phase 1

**Phase 2: Hardware Interface Design**
- Initial Design of Program That Sends Samples to FIFO
- Create Test Vectors in Matlab.

**Loopback Test:**
- Send Data to Output FIFO
- Route Data Path Back to Computer
- FPGA: Confirm Data Passes Thru Opal Kelly I/P

- Finalize Design of Program
- Completion of Phase 2

**Phase 3: User Interface Design**
- Create FIFO Data Grab Program
- Create User Feedback Display Program