## 6.111 Final Project Presentation

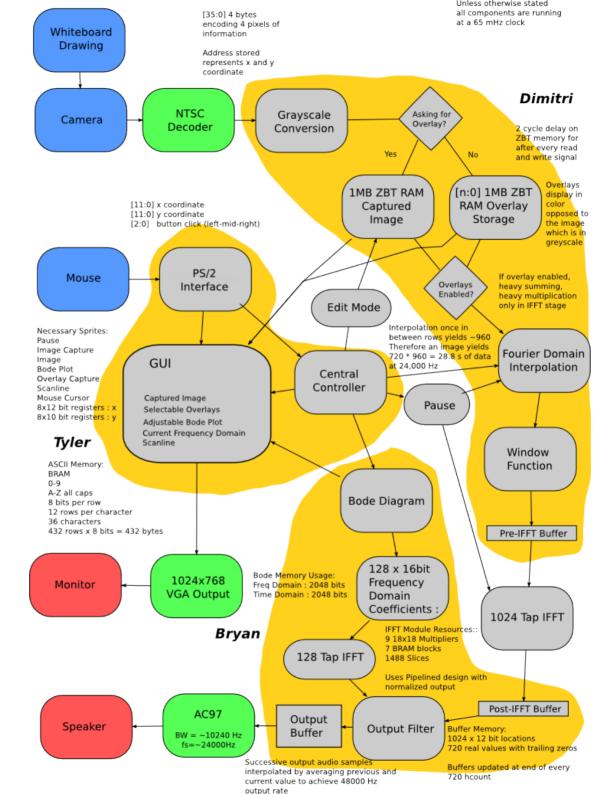
# Real-Time Visual Audio Composition

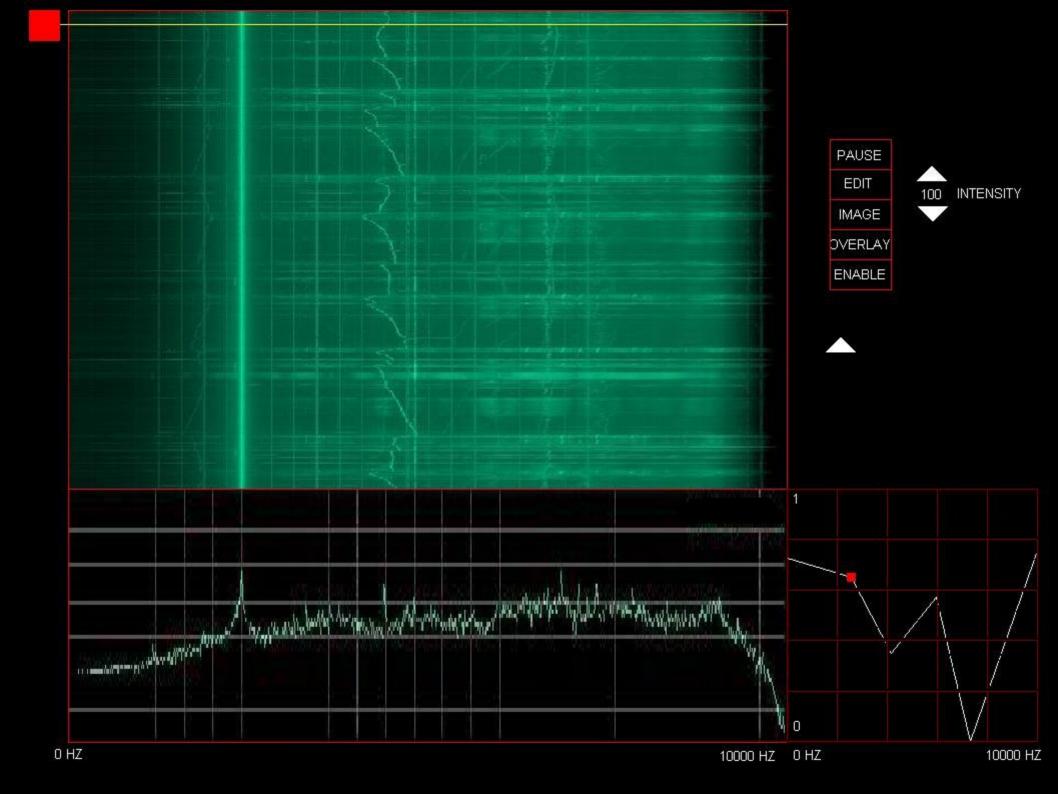
Tyler Hutchison, Dimitri Turbiner, Bryan Newbold

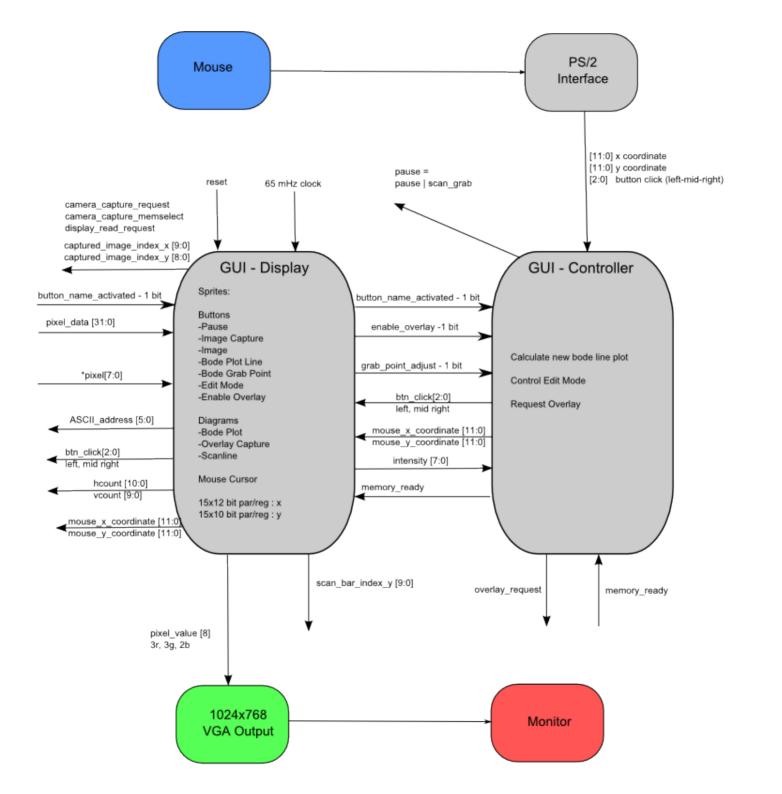
# Project Breakdown

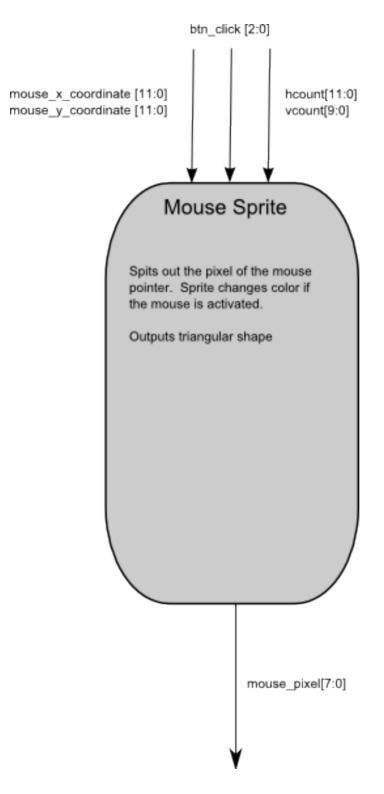
- Camera reads spectrogram, processed with IFFT module, output as looping audio
- Tyler is building VGA output GUI, including user editable filter diagram
- Dimitri is handling NTSC input and memory control
- Bryan is streaming spectral samples through IFFT, applying filter, and outputing audio

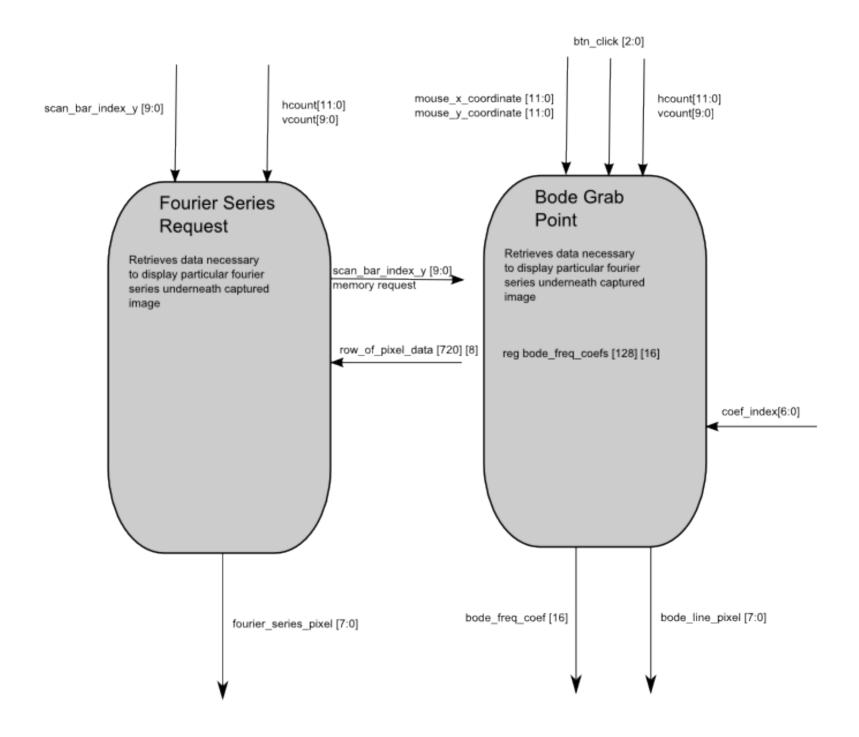
## Full System Block Diagram

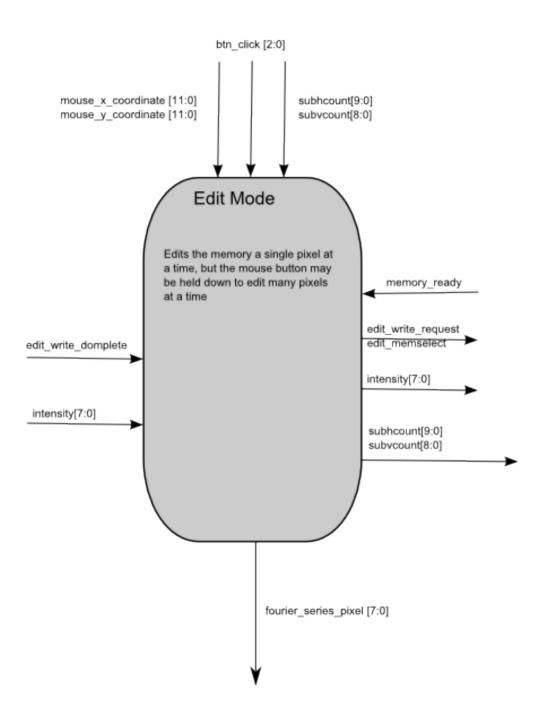


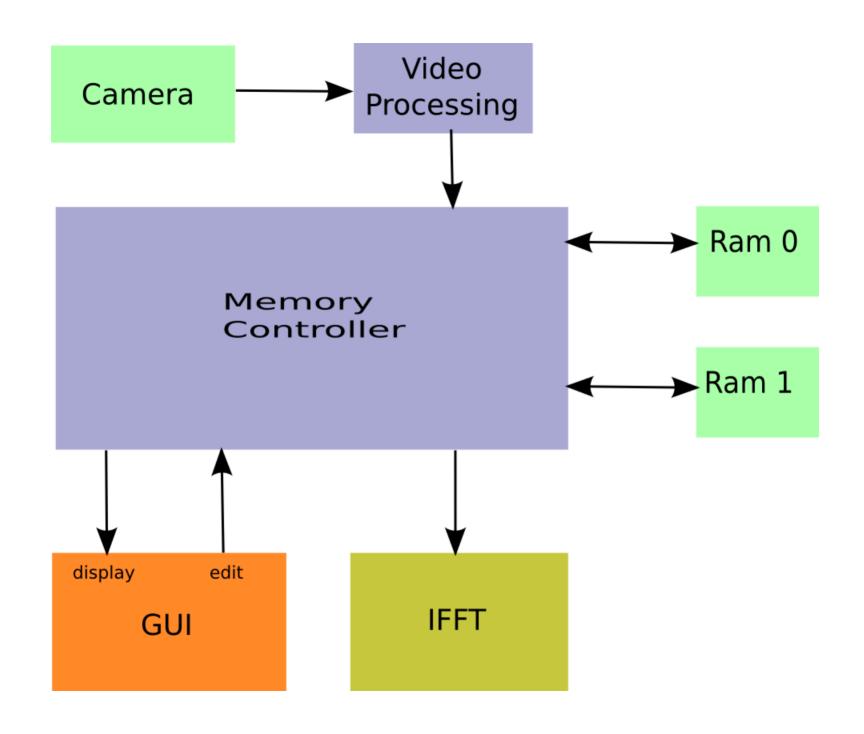


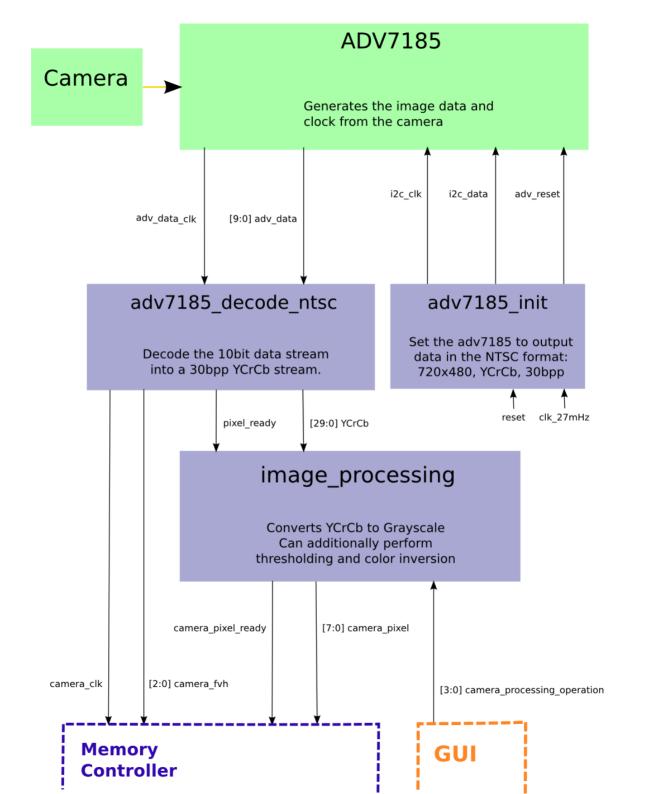


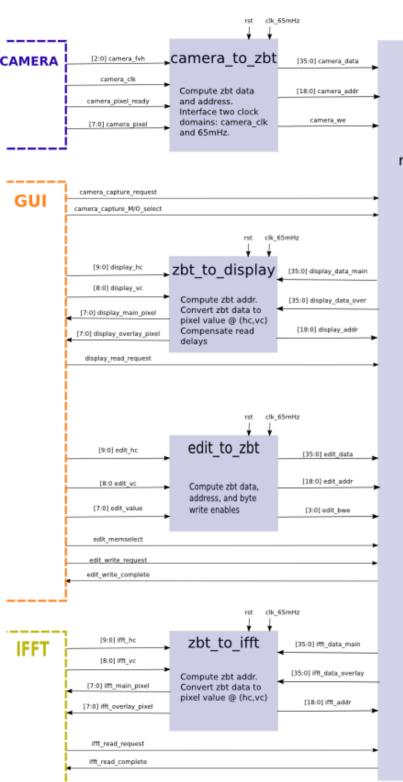




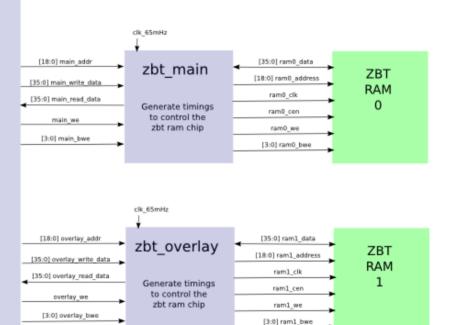




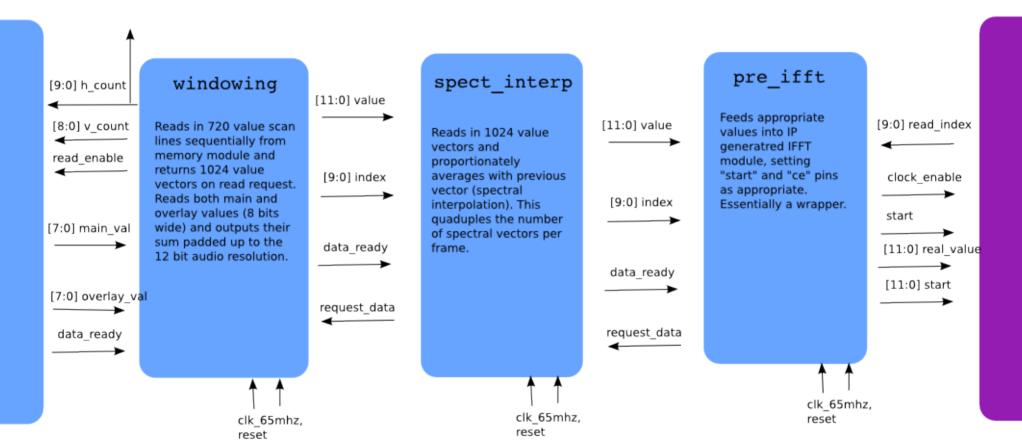




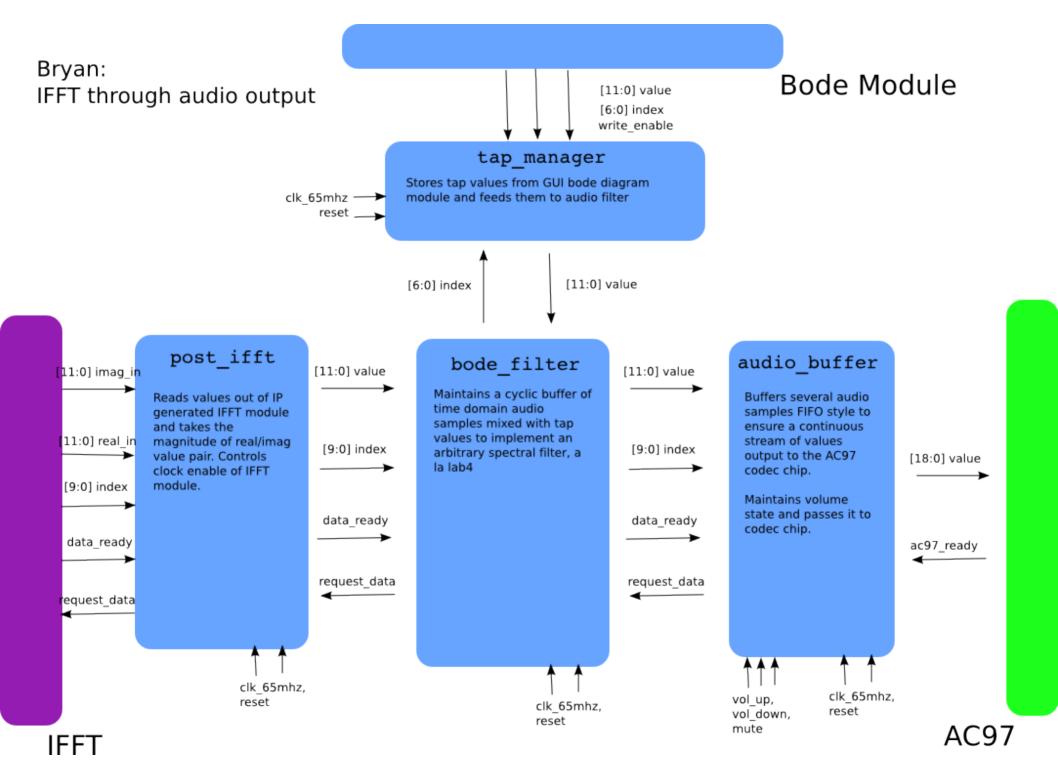
#### memory\_control



### Bryan: RAM to IFFT



RAM Module IFFT



# Rough Timeline

- Week of 11/17: Basic Module Functionality on the bench
- Week of 11/24: Polish and Integrate Modules
- Week of 12/01: Characterization and testing; extra features.
- Week of 12/08: Presentations and report due