6.111 Final Project Checklist

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Projecting

- **Galvo_interface**
  - Send digital signals through DAC to galvo motors to project a laser line.

- **Mouse_in**
  - Receive coordinates/clicks from mouse and translate into galvo coordinates.

- **Audio_in**
  - Receive audio input through ac97 and translate musical properties (Bass, treble, etc...) into galvo coordinates.

Control

- **Control_FSM**
  - Receive and store galvo coordinates and send them to galvo_interface continuously.

Scanning

- **Camera_in**
  - Capture and store 2 frames from ntsc camera every second.

- **Swept_plane**
  - Analyze images in ZBT, find edge, and calculate/store 3d coordinates of surface.

- **VGA_out**
  - Plot point cloud in 3d space and output to VGA