

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