Project Checklist
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1 Ganesh

1.1 Minimum
  • Perspective transform/warping module

1.2 Goal
  • Lookup table for the four corners of the quadrilateral vs raw accelerometer reading
  • Manual override module
  • Display a checkerboard to help in manual override

1.3 Stretch
  • Saving manual override settings in the compact flash

2 Shantanu

2.1 Minimum
  • Basic audio for help

2.2 Goal
  • Audio for percentage of pixels lost

2.3 Stretch
  • Audio for angle
  • Audio for advanced help
3 James

3.1 Minimum

- SPI interface to accelerometer, basic lowpass filter (e.g. moving average)
- Create mechanical structure for holding the tilt sensor in place

3.2 Goal

- Camera interface with centering of camera image

3.3 Stretch

- Get angle from raw accelerometer reading
- Camera image resize module to stretch it to fill the buffer