

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