

4/4/2013

Weekly Report 4/4

Group: 13-17

Advisor: Prof. Somani

Client: Josh Mandich/ Venture Lights

Accomplishments:

- Met with Dr. Koray
 - Got a nicer lens more suited to machine vision
 - Much clearer image
 - Suggested taking multiple pictures, run entropic analysis
- Decided to move image processing to server to improve speed
- Set due dates
 - April 16th - Working on server side
 - April 30th - Be able to demo project

Plan for the coming week:

- Eric: Update documentation, work with James and David on moving image processing to server, help Michael finish camera work
- Michael: Work on controlling shutter and gamma for better picture, work on taking multiple pictures
- James: Work with David and Eric on moving image processing to server side
- Intae: Keep working on PCB design, look at processor suggestions from Eric
- David: Fix remaining issues with character segmentation and OCR, work with James and Eric on moving to server
- Everyone: Work on poster and final presentation

Pending Issues:

- Should put together a unified repository of our code
- Work on setting up project to hand off at the end
 - Will need to document everything

Individual Contributions:

- Eric: Found how to calculate entropy using OpenCV, researched processor information for Intae, worked on poster with James
- Michael: Worked on taking pictures with new lens, moved to new SD card, worked on changing gamma and exposure using camera driver
- James: Wrote JUnit tests for server side, did load testing, worked on poster
- David: Fixed some issues with locating characters, worked on processing images taken from board, implemented entropy calculation to find least blurry image
- Intae: Worked on PCB design