

1/24/2013

Weekly Report 1/17 - 1/24

Group: 13-17

Advisor: Prof. Somani

Client: Josh Mandich/ Venture Lights

Accomplishments:

- Decided to use Beagleboard XM, 512 MB RAM, 1 GHz
 - Buy 1 board, see if Josh still has camera
- Set meeting with senior design professor for next Thursday
- Set timeline for semester
 - Finished prototype by Spring Break
 - Testable code by February 14th
 - Next two weeks: meeting with senior design professor
 - Finish up final documentation within next few weeks

Plan for the coming week:

- Eric: Work with David on interface, talk to Dr. Daniels about secure connection problem. Two weeks: have demo sending information to James
- Michael: Send Eric order info, work on method to index pictures, work with David on sending images to image processing from motion detection.
- James: Send out screenshot of GUI, prepare demo, work with Eric on data transfer
- Intae: Talk to Somani about moving to PCB, continue working on PCB design, look at possible enclosures for project
- David: Compress input images for transfer, determine which plate is best to OCR, improve OCR accuracy and get rid of extra characters. Next week: Be able to loop through many test images
- Everyone: Send license plate pictures to David

Pending Issues:

- Michael and David: meet Tuesday at 3 PM to discuss how to pass images
- Two week goal: Demo data flow and integration between everyone's code
- Work on integration
- Within two weeks: meet with senior design professor
 - Set up meeting time

Individual Contributions:

- Eric: Code to look for images and package for sending is working
- Michael: Camera has been pushed back again, can switch to Beagleboard and use a different camera. Recommend going with the 1 GHz model. Working on what picture is best to send
- James: GUI is set up and working. Problems with SSL, will need to work with Eric
- David: Image processing now saves possible license plates as separate images, and deskews them for OCR. Worked on segmenting individual characters and OCR accuracy

- Intae: Looking at PCB design options
- Intae: Looking at IR sensors to purchase