

2/7/2013

Weekly Report 2/7

Group: 13-17

Advisor: Prof. Somani

Client: Josh Mandich/ Venture Lights

Accomplishments:

- Decided on OS: Ubuntu for Beagleboard
- Integration is mostly complete
 - Motion detection can send image to image processing, which sends license plate to network code
 - Still a few problems with sending info over network
- Board has been ordered, will hopefully arrive by the end of the week

Plan for the coming week:

- Eric: Resolve byte stream issues, be able to send image and info over network, work on adding info to comments section of JPEG
- Michael: Be able to save and keep track of multiple different image files, and remove them after they are sent, send Intae info about Beagleboard communication
- James: Work with Eric on byte stream issue, refine GUI, work on reading from JPEG comments
- Intae: Find out how to integrate PIR sensor and camera on circuit board, talk to Dr. Somani
- David: Research OCR options and training, get character segmentation working

Pending Issues:

- May need to consider doing all computations on the back-end
- Josh will look at options for enclosures
- OpenCV doesn't run well on ARM, but can be optimized

Individual Contributions:

- Eric: Worked on integration, converted network code to functions that can be called by image processing
- Michael: Worked on integration, motion detection code can call image processing with an image
- James: Worked on GUI, refined image searching, looks through cached images
- David: Worked on integration, image processing now takes an image and calls the network code to send the image and the OCR text
- Intae: Working on PCB layout, integration of PIR sensor and camera