Weekly Report #7, Group 03: 3/4/2012

Accomplishments

- Delivered Prototype A

Plans

- Continue to familiarize ourselves with C++ and OpenCV.
- Review and redesign based on successes and failures experienced while building Prototype A.

Pending

- Define high-level interface for each class.

Individual Contributions

Colin - 10 Hours

- Much of my time this week was spent working towards integrating the various components for our first Prototype. I met with Laith early in the week to flesh out an initial framework for the prototype. From there I added my own opencv_ffmpeg library and a background subtractor class. Once the CentroidFinder class had been wrapped up, I integrated that into the rest of the project. I spent some time experimenting with different ways to track centroids based on our results, but with little success.

Ryan - 10 Hours

- This has been a busy week for the project! I cleaned up specifications for the first prototype and then created a list of coding standards on our wiki (http://code.google.com/p/isu-ecpe491-1203/wiki/CodingStyle) to adhere to from the Google coding standards. I began trying to edit code to adhere to the standards and to clean up our first prototype's class organization so it makes more sense, but this is proving to be very difficult. I also made the standards include commenting for Doxygen, so we can use Doxygen to generate man pages. I also downloaded Doxygen and ran it on some code to make sure it worked. Lastly, earlier in the week I was working on the background subtractor class, and I finished a version of that, but then seemed to have problems, which, in hindsight, may have been caused by not having the right video codec. Colin ended up posting a background subtractor that was better than mine anyway, so we used it in prototype 1.

Shusheng - 7 Hours

- During this week, I finished the work of finding centroid of the worm video by working together with Sam. Then, I look through the combination of others' work. They did a very good job to combine the code by class. Those high level programing styles help me a lot to realize what I should do in future. For next week, I will give the code made by us much more comments to let it be much more clear for every one.

Sam - 4 Hours

- In this week, I took the advise from my team members, and fix the findCentoid class. I also made some ".wmv" video file to test it. It would give some incorrect data before, but now it works really good.

Laith - 10 Hours

- Compiled colin's code that allowed my code to run on different formats and codecs. Then I tried to integerate my code with the rest of the groups code which involved the background subtraction and finding the centroid however due to some programming difficulties I could not integrate my code into theirs. For the next prototype the existing code will be rewritten so I can integrate the worm tracker with the rest of the code.