# Thursday April 12th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Created script to preprocess an image for further use (Represent image as matrix of pixels of RGB values)

* **What will you be working on now?**

Optimize image preprocessing script by attempting to isolate only an area of interest in an image of interest

* **Issues/Problems encountered**

It is not known which techniques will be optimal in the end. Work done is only tentative

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Research on edge detection.

* **What will you be working on now?**

Generation of test images / edge detection framework.

* **Issues/Problems encountered**

Lack of template for images.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

Managed project meeting times, created initial release plan and sprint plan to have the team review and edit them, and did initial research on comparing images using Python.

* **What will you be working on now?**

Implementing the image comparison code and testing it to see the effectiveness.

* **Issues/Problems encountered**

There are many ways to compare images using code, so choosing the right methods for our needs was a challenge.

**Eric Su**

* **What have you been working on since the last meeting?**

Wrote a short script that converts every frame in a video file to a .png file

* **What will you be working on now?**

Researching green detection in RGB, doing Tensorflow tutorials

* **Issues/Problems encountered**

Script only saves images to current folder. This could be an issue in the future which can easily be adjusted as needed.

**An Tran**

* **What have you been working on since the last meeting?**

I been searching up information about comparing images and subtracting background from images, so that only needed part of images can be seen.

* **What will you be working on now?**

Running softwares to test the effectiveness of the software.

* **Issues/Problems encountered**

None so far.

**David Munoz**

* **What have you been working on since the last meeting?**

Research into edge detection and the documentation/API for tensorflow and openCV.

* **What will you be working on now?**

Work with arindam in order to get a simple program that can be trained with fabricated data.

* **Issues/Problems encountered**

Unsure if edge detection will be the answer and fabricating/labeling data

# Saturday April 14th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Refactored script to process an image as matrix of pixels to use updated library (From PIL to Pillow)

* **What will you be working on now?**

Explore the idea of creating a mask to remove unnecessary pixels

* **Issues/Problems encountered**

None at this point

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Research on edge detection.

* **What will you be working on now?**

Generation of test images.

* **Issues/Problems encountered**

Sparse data in image bank of contaminants.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

Research done on comparing images to find a percent similarity, and also on an image recognition method called template matching. Began initial work on testing these methods.

* **What will you be working on now?**

Continuing working on the code for image comparisons to find a percent similarity and also initial work on template matching.

* **Issues/Problems encountered**

Unclear what the best usage of these methods are, though they will clearly be useful.

**Eric Su**

* **What have you been working on since the last meeting?**

Researching color detection methods

* **What will you be working on now?**

Researching color detection methods

* **Issues/Problems encountered**

None yet

**An Tran**

* **What have you been working on since the last meeting?**

Working to collect the S3 bucket images by use of browser.

Figure out the coding to determine the similarity by pixel.

Looking for information to decrease the amount of information.

* **What will you be working on now?**

Comprehend the codes that were found online and messing with the codes to even gain more understanding of what will happen when certain lines within the codes change.

* **Issues/Problems encountered**

None

**David Munoz**

* **What have you been working on since the last meeting?**

Testing Matlab Edge function with a simple program.

* **What will you be working on now?**

Moving on to using different Matlab API for ‘Fuzzy Logic’ and ‘Sobel’ Method.

* **Issues/Problems encountered**

The image quality of our current data is poor, and lines are not clean/clear.

# Tuesday April 17th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Created a script that displays an image and detects mouse interaction on it. This can be used to create a personalized mask for a specific image

* **What will you be working on now?**

Successfully create a mask that will block out unnecessary pixels, and add the ability to save an export mask

* **Issues/Problems encountered**

None at the moment

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Research on edge detection.

* **What will you be working on now?**

Testing edge detection.

* **Issues/Problems encountered**

Poor image quality.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

Worked on the code for image comparisons to find a percent similarity and also began initial work on template matching. Can now find a percent similarity from a source image compared to multiple other images.

* **What will you be working on now?**

Finish up testing the percent similarity code and then do further research and testing on template matching. Template matching seems like it could be useful to block out certain areas of images because it can be used to find areas that are the same between images. Further research and decision making must be done.

* **Issues/Problems encountered**

The main problem at this point is that I’m not sure what the best applications of these scripts will be for our project specifically, and so I’m figuring it out through testing.

**Eric Su**

* **What have you been working on since the last meeting?**

Wrote a script that allows the user to select a range of RGB colors from an image

* **What will you be working on now?**

Implementing more user-versatile features, such as putting RGB values in command line args

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Understanding and messing with the online codes.

* **What will you be working on now?**

Completely understand and finish modifying the codes.

* **Issues/Problems encountered**

None

**David Munoz**

* **What have you been working on since the last meeting?**

Have only read up on the methods from matlab documentation.

* **What will you be working on now?**

Still trying to work with the sobel and fuzzy logic methods with matlab.

* **Issues/Problems encountered**

None during this period.

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# Thursday April 19th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Messed around with a basic MS paint-like tool to highlight a specific area to be used as a mask

* **What will you be working on now?**

Continue working on the masking process

* **Issues/Problems encountered**

None at this point. Just need more time

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Testing edge detection.

* **What will you be working on now?**

Reworking image processing for tests.

* **Issues/Problems encountered**

Mistakes made when handling images.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

Visited the True Leaf Farms produce factory with Atollogy in order to learn more about the project being done and better assess the research and experimentation that must be done by our group. Continued work on template matching and it seems the code will be useful as it does what it should.

* **What will you be working on now?**

Further testing is required on template matching, specifically trying to manipulate the template image in order to see if it’s still detected in the source image. This is to find the limitations of this method in terms of solving the contaminant problem.

* **Issues/Problems encountered**

It seems like rotating the template image causes issues with matching the template in the source image. Further testing is needed to find out what the limitations and strengths of this method are.

**Eric Su**

* **What have you been working on since the last meeting?**

Testing my color detection script on images of spinach to get a variety of green

* **What will you be working on now?**

Still testing, researching ways to isolate certain pixels of an image so they won't get analyzed

* **Issues/Problems encountered**

Cannot seem to find a way (yet) of drawing on an image

**An Tran**

* **What have you been working on since the last meeting?**

Looking up ways to find images within an image.

* **What will you be working on now?**

Combining the what I found with the other codes I found online.

* **Issues/Problems encountered**

Encounter problem with handling files by folder.

**David Munoz**

* **What have you been working on since the last meeting?**

Used Matlab edge function

* **What will you be working on now?**

Continuing to use Matlab and find a way to integrate it into a python system

* **Issues/Problems encountered**

None

# Saturday April 21st, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Explored the idea of representing matrix of pixels as a linked list once that they have been masked

* **What will you be working on now?**

Same as above, and figure out whether it is effective to continue pursuing masking

* **Issues/Problems encountered**

None at this point

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Reworking image processing for tests.

* **What will you be working on now?**

Verifying test results.

* **Issues/Problems encountered**

Nothing major.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

Worked on researching and testing method of comparing images called template matching using OpenCV. Tested being able to detect a template in an image one time.

* **What will you be working on now?**

Continuing to test template matching, especially to find a template in an image multiple times. Also looking into how we can apply template matching and image comparisons into finding contaminants.

* **Issues/Problems encountered**

Not every method of template matching works for each set of images, some are better than others in certain situations. So it’s best to use multiple.

**Eric Su**

* **What have you been working on since the last meeting?**

Getting an average of colors in a certain area to reduce computations required

* **What will you be working on now?**

(same as above)

* **Issues/Problems encountered**

Not entirely sure how to distribute an “average” of color across RGB, researching this

**An Tran**

* **What have you been working on since the last meeting?**

At most, I been reviewing the codes I found online.

* **What will you be working on now?**

I be working on more of the code that will delete the background.

* **Issues/Problems encountered**

None

**David Munoz**

* **What have you been working on since the last meeting?**

Since last Thursday I have not worked on the since last meeting.

* **What will you be working on now?**

I'm going to research how to integrate Matlab into a python system.

* **Issues/Problems encountered**

None

# Thursday April 26th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

No tasks completed at the moment

* **What will you be working on now?**

Update script to specify number of pixels desired in an area to be averaged. Work on creating our own data images. Work with the entire team on combining our code.

* **Issues/Problems encountered**

Programming assignment from a different class

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Working with line recognition in images.

* **What will you be working on now?**

Reviewing other edge and line detection algorithms.

* **Issues/Problems encountered**

A lot of unfamiliar math.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

Tested the template matching code for multiple cases, such as using one template image on multiple different source images, and also trying to rotate and scale template images to see how it affects the results. Also worked to think of possible camera placements for Atollogy.

* **What will you be working on now?**

Preparing to and then actually working to combine the template matching and/or percent similarity comparison codes with the rest of the teams code.

* **Issues/Problems encountered**

Rotating and scaling, and other forms of editing a template image, affect the results of template matching quite negatively. The uses of this code are definitely limited but I still believe there are applications of it.

**Eric Su**

* **What have you been working on since the last meeting?**

Not much (busy with other class)

* **What will you be working on now?**

Averaging colors across a pixel array

* **Issues/Problems encountered**

Difficulty with defining a starting point for the average

**An Tran**

* **What have you been working on since the last meeting?**

Testing the code that Kevin been working on. Trying to figure out what we, as a team, need to make our codes effective as it can for detecting contaminant.

* **What will you be working on now?**

Try to combine the codes together.

* **Issues/Problems encountered**

None

**David Munoz**

* **What have you been working on since the last meeting?**

I have been trying to work with different thresholds/parameters to see if it possible to grab individual leaves from a pile.

* **What will you be working on now?**

I am will continue to tweak and add to the script until saturday when we attempt to create a system together

* **Issues/Problems encountered**

Having issues trying to call my script through python.

# \*\*Saturday April 29th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Worked with the entire team to test the advantages of current techniques used and to design the image processing pipeline

* **What will you be working on now?**

Researching an effective way to mask the background in a series of images

* **Issues/Problems encountered**

None

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Testing a variety of edge detection algorithms.

* **What will you be working on now?**

Looking into the math behind some of the aforementioned algorithms.

* **Issues/Problems encountered**

Tweaking algorithms to work well in our specific case has proved to be quite tricky.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

Met with the group to work on testing multiple ways of combining our code. I also modified the template matching script to be able to specify a source and template image through the command line, and the output now goes to it’s own folder that is named based on the source + template name.

* **What will you be working on now?**

Will be working with Cesar and An to modify our code and write new code to be able to detect and remove backgrounds from images.

* **Issues/Problems encountered**

We are still having issues finding the optimal way to use our code to detect contaminants, but hopefully by the end of this sprint it’ll be more clear.

**Eric Su**

* **What have you been working on since the last meeting?**

Researched more HSV functions

* **What will you be working on now?**

Researching more HSV functions

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Meet up with team to work on what we can do to combine the codes together.

* **What will you be working on now?**

Reading up information on masking and finding out possible ways to mask images.

Working with team members to make a script to alter image.

* **Issues/Problems encountered**

None

**David Munoz**

* **What have you been working on since the last meeting?**

I have abandoned matlab because of system requirements for others and have turned my code into python

* **What will you be working on now?**

Will continue to do so because it does not have the same functionality as it did before

* **Issues/Problems encountered**

Script is not working like before

# \*\*\*Tuesday May 1st, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Researched for background masking tools and tested their use along with An Tran

* **What will you be working on now?**

Test results of scripts found and modify them to our specifications

* **Issues/Problems encountered**

None

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Trying to get useful results out of edge detection algorithms.

* **What will you be working on now?**

Creating an automated system to generate test images.

* **Issues/Problems encountered**

The output of edge detection algorithms still needs to be parsed, which has proven to be its own challenge.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

Refining color boundaries

* **What will you be working on now?**

Researching ways to average color boundaries

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Reading up on the different kinds of masking, like cropping or extracting images to find the best way to mask images.

* **What will you be working on now?**

Working some more with group on making a masking script.

* **Issues/Problems encountered**

None

**David Munoz**

* **What have you been working on since the last meeting?**

I have been doing research and working with contouring features in OpenCV.

* **What will you be working on now?**

I will continue to explore contouring in Python

* **Issues/Problems encountered**

The math behind contouring is complex.

# 

# \*\*\*Thursday May 3rd, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Generated sample videos to test background masking methods. Worked with Kevin Ajili to create masking script, by combining individual mask into a single mask.

* **What will you be working on now?**

Clean the code and test the mask in original video

* **Issues/Problems encountered**

None

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Creating an automated system to generate test images.

* **What will you be working on now?**

Creating an automated system to generate test images.

* **Issues/Problems encountered**

Working with images has proven to be trickier than expected.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

Researching alternate color detection methods

* **What will you be working on now?**

Testing K-means color clustering scripts

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Code with team members to complete part of the masking script.

* **What will you be working on now?**

Continue work with the masking of the background.

* **Issues/Problems encountered**

None

**David Munoz**

* **What have you been working on since the last meeting?**

I have not done work for the project since last meeting, due to midterms.

* **What will you be working on now?**

I am will create sample test images for use in our pipeline

* **Issues/Problems encountered**

Gave up on contouring could not get the functionality needed

# \*\*\*\*Saturday May 5th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Cleaned the background masking script. Worked with Kevin Ajili and An Tran to provide a working sample of background masked in an input video

* **What will you be working on now?**

Nothing

* **Issues/Problems encountered**

None

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Creating an automated system to generate test images.

* **What will you be working on now?**

Creating an automated system to generate test images.

* **Issues/Problems encountered**

Standard image manipulation algorithms introduce unwanted artifacts into the generated images.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

Researching alternate color detection methods

* **What will you be working on now?**

Testing K-means color clustering scripts

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Nothing much. Been working on my other class work.

* **What will you be working on now?**

Code with Kevin and Cesar to work on the masking script.

* **Issues/Problems encountered**

None

**David Munoz**

* **What have you been working on since the last meeting?**

I made a folder with possible contaminants with a transparent background for use in our system

* **What will you be working on now?**

I am going to pair program with Arindam, we are going to work on the final stage of the pipeline

* **Issues/Problems encountered**

I did not create many images.

# 

# \*\*\*\*\*Tuesday May 8th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Refactor background masking methods for easier calling of methods.

* **What will you be working on now?**

Create a main script that preprocesses an image and identifies a contaminant if found

* **Issues/Problems encountered**

None right now.

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Creating an automated system to generate test images.

* **What will you be working on now?**

Research into data augmentation.

* **Issues/Problems encountered**

Rotating images an arbitrary amount but keeping them at the same resolution without introducing artifacts has been unachievable, so far.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

Researching alternate color detection methods

* **What will you be working on now?**

Testing K-means color clustering scripts

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Working on the masking code with Kevin and Cesar.

* **What will you be working on now?**

Creating transparent containment images to be used for testing.

* **Issues/Problems encountered**

Midterm.

**David Munoz**

* **What have you been working on since the last meeting?**

I did not work on the project, as I focused on other classes.

* **What will you be working on now?**

I’m going to focus on creating a brute force manner to find an irregular shape on a black background.

* **Issues/Problems encountered**

Other Classes

# \*\*\*\*\*Thursday May 10th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Started main script that processes images and displays all steps in the process as they happen.

* **What will you be working on now?**

Find a way to timestamp and save images where a contaminant has been found

* **Issues/Problems encountered**

None

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Research into data augmentation.

* **What will you be working on now?**

Research into data augmentation.

* **Issues/Problems encountered**

The math involved in image manipulation is something I need to review.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

Researching alternate color detection methods

* **What will you be working on now?**

Testing K-means color clustering scripts

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Study for midterm.

* **What will you be working on now?**

Creating transparent containment images to be used for testing.

* **Issues/Problems encountered**

Midterm.

**David Munoz**

* **What have you been working on since the last meeting?**

I have been creating different test images for the use of testing.

* **What will you be working on now?**

I will continue research on the finals stage of the pipeline to look for new methods.

* **Issues/Problems encountered**

None

# \*\*\*\*\*Saturday May 12th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Add to main script, and added the ability to timestamp an image where a positive identification has been made.

* **What will you be working on now?**

Test the current status of the script. Create a video if necessary.

* **Issues/Problems encountered**

None

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Finished a data generation script.

* **What will you be working on now?**

The last step in contaminant detection.

* **Issues/Problems encountered**

Other issues outside of this project have been consuming my time.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

Researching alternate color detection methods

* **What will you be working on now?**

Testing K-means color clustering scripts

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Created the transparent images and pass them along to Arindam.

* **What will you be working on now?**

Provide team with any help they needs by asking them what they need help with.

* **Issues/Problems encountered**

None.

**David Munoz**

* **What have you been working on since the last meeting?**

I did not work on the project during this span.

* **What will you be working on now?**

Look into blob library for python.

* **Issues/Problems encountered**

None

# \*\*\*\*\*Tuesday May 15th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Used video generation script to generate a sample video that contains a contaminant in it.

* **What will you be working on now?**

Test with the video generated on the main script

* **Issues/Problems encountered**

CMPS 112 Midterm

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Nothing.

* **What will you be working on now?**

Nothing.

* **Issues/Problems encountered**

I have three midterms in the next two days.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

Researching alternate color detection methods

* **What will you be working on now?**

Testing K-means color clustering scripts

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Ask the team if they needed my help with anything.

* **What will you be working on now?**

Nothing till the next meeting.

* **Issues/Problems encountered**

None.

**David Munoz**

* **What have you been working on since the last meeting?**

I looked into the blob library and it did not work particularly well.

* **What will you be working on now?**

I’m going to focus on creating a brute force manner to find an irregular shape on a black background again, to make sure we have a product regardless of efficiency.

* **Issues/Problems encountered**

The library was only finding circles not any other irregular shapes.

# \*\*\*\*\*Thursday May 17th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Tested video generated and main script for demo to sponsors

* **What will you be working on now?**

Add to main script the ability to generate a background mask if one does not exist already

* **Issues/Problems encountered**

Other schoolwork (CMPS 112)

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Working on the last step of contaminant detection.

* **What will you be working on now?**

Implementing a simplified version of colored region detection.

* **Issues/Problems encountered**

A lack of time and sleep.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

Researching alternate color detection methods

* **What will you be working on now?**

Testing K-means color clustering scripts

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Nothing

* **What will you be working on now?**

Look up codes that will determine what color appear with in an image.

* **Issues/Problems encountered**

Midterm.

**David Munoz**

* **What have you been working on since the last meeting?**

I did not work on the project, as I focused on other classes.

* **What will you be working on now?**

I’m going to focus on creating a brute force manner to find an irregular shape on a black background.

* **Issues/Problems encountered**

Other Classes

# \*\*\*\*\*Saturday May 19th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Nothing right now

* **What will you be working on now?**

Add to main script the ability to generate a background mask if one does not exist already.

* **Issues/Problems encountered**

Other schoolwork (CMPS 112 Assignment due)

**Arindam Sarma**

* **What have you been working on since the last meeting?**

Brushed up on some documentation.

* **What will you be working on now?**

Finishing the detection script.

* **Issues/Problems encountered**

Increasing the scripts efficiency.

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

Researching alternate color detection methods

* **What will you be working on now?**

Testing K-means color clustering scripts

* **Issues/Problems encountered**

none

**An Tran**

* **What have you been working on since the last meeting?**

Looking at options on how to find what colors appear within an image.

* **What will you be working on now?**

Working with Kevin on color coding.

* **Issues/Problems encountered**

Midterm.

**David Munoz**

* **What have you been working on since the last meeting?**

I did not work on the project, as I focused on other classes.

* **What will you be working on now?**

I’m going to focus on creating a brute force manner to find an irregular shape on a black background.

* **Issues/Problems encountered**

Other Classes

# \*\*\*\*\*Tuesday May 22nd, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Worked along An Tran to add to the main program the ability to generate a custom background mask if one does not exist already.

* **What will you be working on now?**

Incorporate the two different methods created to find contaminants into the main script.

* **Issues/Problems encountered**

None at the moment

**Arindam Sarma**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**An Tran**

* **What have you been working on since the last meeting?**

Worked with Cesar on the main program to generate a custom background mask.

* **What will you be working on now?**

Thinking of how to remove or reduce the noise in an image.

* **Issues/Problems encountered**

None

**David Munoz**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

# \*\*\*\*\*Thursday May 24th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Incorporated 2 object detection methods created by team members into the main program

* **What will you be working on now?**

Look for ways to optimize the runtime of the main program

* **Issues/Problems encountered**

None at the moment

**Arindam Sarma**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**An Tran**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**David Munoz**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

# \*\*\*\*\*Saturday May 26th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Fixed small bug when creating a custom mask that would cause an infinite loop.

* **What will you be working on now?**

Continue working on efficiency of the main program.

* **Issues/Problems encountered**

None at the moment

**Arindam Sarma**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**An Tran**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**David Munoz**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

# \*\*\*\*\*Tuesday May 30th, 2018 Scrum Meeting Log

**Cesar Neri**

* **What have you been working on since the last meeting?**

Multiprocessor main program to take advantage of available hardware. Separate process now handles one of the more computationally intensive tasks.

* **What will you be working on now?**

More overall testing.

* **Issues/Problems encountered**

**Arindam Sarma**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Kevin Ajili**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**Eric Su**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**An Tran**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**

**David Munoz**

* **What have you been working on since the last meeting?**

* **What will you be working on now?**

* **Issues/Problems encountered**