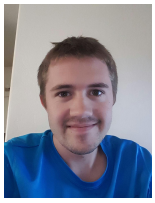
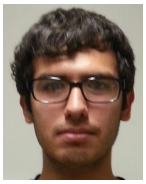
Weekly Team Task Report

Report #18

Team: Hydro Citizens					**Date: 3/6/18**		
Project Title: **Citizens science mobile app for hydrology reporting**							
	**Logan Brewer** Present On-time		**Kelli Ruddy** Present On-time		**Luis Arroyo** Present On-time		**Ryan Ladwig** Present On-time

Recent Meetings:

3/ 2 - Team Meeting
3/ 3 - Team Meeting
3/ 4 - Team Meeting
3/ 5 - Team Meeting

TASKS COMPLETED since last meeting:

Task Title: Modify Image Upload App	**Task Initiation:** 2/23/18	**Orig. Due Date:** 3/6/18	**Status:** 50%
Who (%): Kelli Ruddy			
Description: Modify upload app to allow user to view specific water gauges and its uploads.			
Expected Outcome: An application that allows users to view specific gauges to upload data to and also allow users to login to the application.			

Task Title: Finish mobile integration	**Task Initiation:** 2/23/18	**Orig. Due Date:** 3/6/18	**Status:** 50%
Who (%): Logan Brewer			
Description: Add the ability to login to the app with dummy accounts.			
Expected Outcome: Have mobile application with geolocation and photo submission that you can login to.			

Task Title: Notification	**Task Initiation:** 2/7/18	**Orig. Due Date:** 2/13/18	**Status:** 50%
Who (%): Luis Arroyo			
Description: Be able to implement notifications using the Twilio on an Android device.			
Expected Outcome: Be able to present a tech demo by next mentor meeting showing a notification on an Android device when it is send from the server. Have completed and show to team on Friday 3/2 meeting.			

Task Title: URGENT: OpenCV JS compatibility with Meteor	**Task Initiation:** 2/27/18	**Orig. Due Date:** 3/6/18	**Status:** Complete
Who (%): Ryan Ladwig			
Description: Load OpenCV JS into a Meteor application to ensure that the two are compatible with one another.			
Expected Outcome: Show that OpenCV matrices can be initialized and manipulated within a Meteor application.			

This week's Tasks: Work plan for coming week

Task Title: Modify Image Upload App	**Task Initiation:** 2/23/18	**Orig. Due Date:** 3/6/18	**Status:** 50%
Who (%): Kelli Ruddy			
Description: Update application based on discussion at team meeting on Friday 3/9			
Expected Outcome: An application that allows users to view specific gauges to upload data to and also allow users to login to the application.			

Task Title: Mobile Integration	**Task Initiation:** 3/2/18	**Orig. Due Date:** 3/13/18	**Status:** In Progress
Who (%): Logan Brewer			
Description: Get image uploading working on mobile device.			
Expected Outcome: Have mobile application with image submission.			

Task Title: Combine CV with user input	**Task Initiation:** 2/27/18	**Orig. Due Date:** 3/6/18	**Status:** 50%
Who (%): Ryan Ladwig			
Description: Combine the CV algorithms with user input to show that the user can adjust measurements made by OpenCV			
Expected Outcome: Show the team that this method can be used to reasonably adjust measurements made by the CV algorithm (preferably with real PVC pole)			

Task Title: Notification	**Task Initiation:** 2/7/18	**Orig. Due Date:** 2/13/18	**Status:** 80%
Who (%): Luis Arroyo			
Description: Combine geolocation with SMS text messages mobile device.			
Expected Outcome: Show the team that when a user is close to a marker, it will send a text message to the user.			

Task Title: Design Review Presentation	**Task Initiation:** 3/3/18	**Orig. Due Date:** 3/7/18	**Status:** In progress
Who (%): Whole Team			
Description: Be able to present slides given out at team meetings during the design review.			
Expected Outcome: Practiced and able to present slides for the design review presentation.			

Task Title: Image Processing with photo from user camera	**Task Initiation:** 2/6/18	**Orig. Due Date:** 3/13/18	**Status:** In Progress

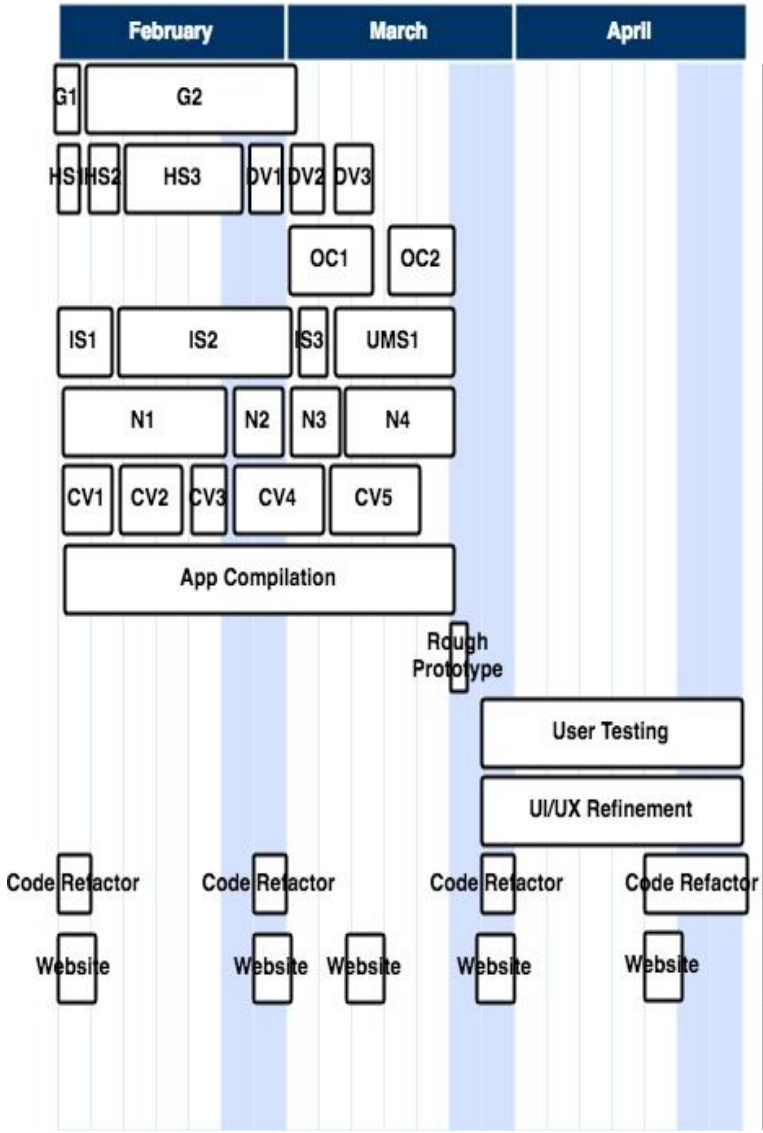
Who (%): Ryan Ladwig
Description: Allow users to take pictures with a mobile phone and upload/submit them to the Meteor application. Run CV algorithms on the image and allow for user adjustments.
Expected Outcome: Demonstrate the process of a user taking an image, running the CV algorithms, and adjusting the algorithm's guess.

Upcoming Tasks: Planning

Task Title: Software Testing	**Who (%):** Whole Team	**Rough Due Date:** 3/27/18
Description: Get users to test our application.		

Other Problems / Other Issues:

- Image uploading on mobile.



G1: Calculate distance from user to markers on the web app.
G2: Convert to mobile and storing Latitude and Longitude on mobile.
HS1: Get Access.
HS2: Format.
HS3: Submit data.
DV1: HydroServer visualization.
DV2: NWM visualization.
DV3: NWIS visualization.
OC1: Caching data from the NWM and gauge information.
OC2: User submitted image for caching.
IS1: Store image on a flat file.
IS2: Convert to mobile.
IS3: Store name of image as metadata.
UMS1: Set up user account system.
N1: Get notification send to mobile.
N2: Get notification send to mobile offline.
N3: Allow users to modify notification settings.
N4: Apply notification with geolocation, NWM, and NWIS.
CV1: Translate code to JavaScript.
CV2: Draggable elements.
CV3: Get pole data.
CV4: Calculate final measurement and save to file.
CV5: Refine algorithm.