
EE/CprE/SE 491 WEEKLY REPORT 9

4/10/23 - 4/16/23

Group number: 4

Project title: CLARE: The Lab Availability Tracker

Client &/Advisor: Mohamed Selim/Ahmed Nazar

Team Members/Role:

Evan Uhlmeyer - Meeting leader

Frank Sullivan - Team website manager

Jorge Ortiz - Main client contact

Tyler Rolston - ETG and external contact

Joel Neppel - Course assignment manager

○ **Weekly Summary**

- Had a team meeting this week and decided on goals for the next team meeting
 - Team was split into two sub-teams, Evan and Frank on image processing, and Joel, Tyler, and Jorge working on backend webserver implementation
- Team continued experimentation with OpenCV and YOLOv5
- Initial implementation of webserver began

○ **Past week accomplishments**

- Evan Uhlmeyer
 - Wrote python for pulling from camera
 - Figured out pulling images from camera
 - Combined with script written by Frank to feed camera images into YOLOv5 and output results
- Tyler Rolston
 - Flask tutorial
- Joel Neppel
 - Reached out to ETG to get an API key for LabStats
 - Looked into Python web tools
- Frank Sullivan
 - Investigated getting data from remote webcam
- Jorge Ortiz:
 - Familiarized myself with Flask

○ **Pending issues**

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Joel Neppel	LabStats API key	1	15
Jorge Ortiz	Flask tutorial	1	13
Tyler Rolston	Flask tutorial	1	14
Frank Sullivan	Remote webcam testing	1	13
Evan Uhlmeier	Wrote python that interfaces with webcam and YOLOv5 using OpenCV	3	16

○ **Plans for the upcoming week** *(Please describe duties for the upcoming week for each member. What is(are) the task(s)?, Who will contribute to it? Be as concise as possible.)*

- Evan Uhlmeier
 - Look at approaches for increasing object detection accuracy
 - Work with Joel on interface between image detection scripts and backend
- Tyler Rolston
 - Start on the frontend
- Joel Neppel
 - Start developing the backend
- Frank Sullivan
 - Create working script using ETG webcam
- Jorge Ortiz
 - Begin working with Flask on our project