
EE/CprE/SE 491 WEEKLY REPORT 4

2/27/2023 - 3/5/2023

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**

- Continued working on research tasks and experimenting with various tools we may use.
- Met with the client to discuss progress and plans to use a camera with YOLOv5 to estimate lab capacity
- Got access to LabStats so we can begin experimenting with it.

○ **Past week accomplishments**

- Evan Uhlmeyer
 - Began reading official Canvas documentation on adding apps
 - Began learning about LTI apps for Canvas integration
 - Sent a follow-up email to CELT about information for Canvas
- Tyler Rolston:
 - Wrote a parser to get the lab classrooms from the facilities planning website
- Joel Neppel
 - Continued research on how to add an existing app to Canvas
 - Started learning how to use Pencil to begin designing the basic website layout
- Frank Sullivan
 - Experimented with Python version of OpenCV
 - Able to capture single frame from webcam video stream
- Jorge Ortiz
 - Began experimenting with OpenCV

○ **Pending issues**

- Evan Uhlmeyer
 - Waiting for response from CELT.

○ **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	Lab availability website layout	2	8
Jorge Ortiz	OpenCV Experimentation	2	8
Tyler Rolston	Python application for compiling scheduled lab times	2	8
Frank Sullivan	Experimentation with OpenCV	1	6
Evan Uhlmeier	Digging in Canvas documentation Communicating with CELT	2	7

○ **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
 - Read resources IT provided on Canvas more
 - Learn how LTI apps work, how they are implemented, do some experimentation
 - Continue to ping CELT if they do not respond
 - I will be out of town after Wednesday in the week – can do some work while out of town
- Tyler Rolston
 - Experiment with OpenCV
 - Work on lab schedule script
- Joel Neppel
 - Continue the lab availability website layout
 - Scrape lab schedules from ISU floor plan and classes websites
 - Experiment with OpenCV to get a camera feed
- Frank Sullivan
 - Experiment with other OpenCV functions
 - Look into how OpenCV works with YOLOv5
- Jorge Ortiz
 - Become familiar with OpenCV
 - Resume Canvas investigation