Progress Report #3

03/12/2023

PAST

ZED Software Setup

* Xiaodan and I communicated and worked through setting up Docker on the remote machine
* Learning how to best use docker to account for where the container image needs to be stored, etc
* Setting up a container image to be used to process ZED .svo files

Mask R-CNN Setup

* Dependency issues for setup fixed, Mask RCNN setup on remote machine
* Issues with example trainings came up (using examples to verify proper functioning and gain familiarity with the software and best practices)

ZED Camera Setup

* Finished relocating ZED camera
* Finished taking improved camera calibration photos
  + Makeshift ruler
  + Fake plants
* Fixed issues with photo capture of ZED camera (had to downgrade resolution of images taken)
* Coordinated with the greenhouse lab technician relating to the installation of new imaged plants and the care of said plants.

ONGOING

ZED SDK Installation through Docker

* Setting up a container image to be used to process ZED .svo files

Mask R-CNN Setup

* Dealing with issues running some of the example trainings
* Then will start training it based on the go pro images and let Ethan take that forward

Camera Calibration

* Processing the calibration images and preparing to calibrate future software based on these images

Thesis Writing

* Working on introduction & literature review