

## Journal Report 17

2/16/20 - 2/23/20

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Period 2, White

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### Daily Log

#### Tuesday February 18

Re-annotated around 500 new datapoints, bringing my total dataset to around 1200. Basically spent the whole class drawing bounding boxes.

#### Thursday February 6

Got set up on the Jupyter notebook / GPU system. Copied over the necessary files, installed a new version of darknet, and some other misc. setup things to move my directory onto the leo server. Talked with Tiffany Parise, who helped me set up the library path variables, and I will start training on the GPU next week.

## Timeline

Date	Goal	Met
Today minus 2 weeks	Get a version of YOLO trained on a custom dataset up and running	Yes, I trained YOLO on the custom dataset
Today minus 1 week	Obtain a higher accuracy on YOLO	No, I'm still working on debugging
Today	Train the network with more data	Yes, I annotated more points and am starting to train on the GPU
Today plus 1 weeks	Test the algorithm on the Perplexus chassis system	
Today plus 2 weeks	Have the user be able to move the Perplexus based on commands	

## Reflection

This week was pretty tedious because of the brute-force type of work that I had to do to annotate training data and set up the GPU server. With that being said, Khushi is planning to bring in the chassis to school tomorrow and set it up with the Perplexus. Along with that, we plan to meet during 8th period to sync her code with my interface and hopefully get the entire thing working.