

# DLA Report 6

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## 1 Description of what was done

### 1.1 Summary

The main thing I did these past two weeks was attend the Physics Trades Teaching Lab's Machine Shop and Technology Safety class. I learned how to use various machines and tools, including but not limited to, a band saw, a lathe, a mill, and a caliper. By the end of the week we all made a spinning top and a phone holder. I also had time to go into the lab and take pictures of different types of water surfaces in the glass tray. This is follow up work from the previous meeting where it was mentioned that it would be interesting to see different types of waves rather than just a plane wave using FS-SS with the glass tray. These new waves come from shaking the tray while holding it in a corner and having a water droplet land onto the tray. It was difficult to get a good image with the water droplet since there seemed to always be a water bubble on the water where the droplet landed, even with the droplet not falling a large distance (about 4 inches or so), so I have concerns about inaccurate surface heights as a result.

## 2 Description of Next Steps

For the next two weeks I plan to run the images I took of the different water surfaces through software. I also hope to figure out how to account for the glass tray/acrylic thickness since I didn't have time to do that in time for this report.

## 3 Questions

- I do not have any specific questions after these two weeks.



Figure 1: Top (left) and phone holder (right)



Figure 2: Phone holder with sticky notes