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|  | Motorized Dobsonian Telescope Project |

Memo

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| To: | Troy Scevers |
| From: | Nathan Wiley |
| Date: | May 5, 2023 |
| Re: | Memo 3 |
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This week I mainly worked on the test plan and started recording some results for it. I haven’t had as much time to work on the project as I’d hoped.

In total I worked 6 hours creating the test plan and recording the tests. Below are some images from the tests I performed.

3a Test:

Tested Local Sidereal Time against https://www.localsiderealtime.com/ and against stellarium with screenshot:

A screenshot of a computer

Description automatically generated

Below is an image of my Alt/Az calculation function.

It calculates the alt and azimuth coordinates of an object in the celestial coordinate sphere accurately as shown:

A screenshot of a computer

Description automatically generated

The schedule for the term is below, it shows that I am behind testing the tracking capabilities and control program. I finished a few tests as shown above. Next week I plan on doing more testing and hopefully fixing the slippage of the vertical shaft and gear. I think 5 minute epoxy might work, so I will get some and see how it works.

