

Lab Report 2

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Summary:

18 hours of work.

Saturday & Monday (6 hrs): Copied down and edited files to where I had setup files configured, I managed to set it to where the world loads.

Tuesday(4 hrs): Finished setting up the extra files necessary and connected my world setup to where it loads my old controller and runs the program perfectly from ros2.

Wednesday(5 hrs): Zachary told me that since my logic was still technically in Webots it wasn't what I needed sadly. I had an idea that was the case. I have begun to get "<extern>" controller working with slave.py and master.py. This has been full of errors since timestep will not even work.

Thursday(2 hrs): I spent roughly 2 hours looking through example code in hopes to understand timestep. I have not got it to work for mine yet but that may be due to it just having other errors. Halfway through one of my top examples stopped working so I had to redownload and install, something that has taken up much of my time.

Friday(1 hr): Today I will continue my trial and error of getting a working timestep before I go into work.

I have begun documenting my workdays so that I may prove I have been working on this project every week. This week had a moment of joy where I had thought I finished the project on Tuesday only to realize that my main logic was still running in Webots. I had only managed to have ros2 find my controller and call it to run, that was all.

Next Week:

For the upcoming week beginning on Monday I hope to understand how the timestep works so that I can have time actually flowing in the Webots application. If I can get timestep working I believe my next step would be to have the robot move in a specific velocity.

My goals are to implement as many of following as possible this upcoming week.

- TimeStep
- SetSpeed
- IMU set
- Distance Sensors
- Position Sensors
- Camera

I have been told implementing and understanding these can take a great deal of time. Once I get timestep working I will be very happy. I will devote at least 16 hours a week every week since I seem to be the most behind and the most inexperienced.