23/06/2025

* Designed first version of MOSFET driver circuits
* Familiarized myself with Rasberry Pi and how Python interfaces with it
* Created interfacing diagram between Project 1.2, 1.3 and Rasberry Pi

24/06/2025

* Started research on tightly synchronized hardware triggering
* Created the aqua\_io.py python module
* Initialized the first few functions for toggling the LEDs

25/06/2025

* Attended the weekly meeting
* Adjusted the MOSFET driver circuit design
* Created relationship table for the GPIO pins of the RPi5
* Created the toggle and PWM control functions for the lasers

26/06/2025

* Edited the limit switch functions
* Assigned GPIO pins of the RPi5 to external peripherals
* Begun Hall sensor functions

27/06/2025

* Finished the limit switch functions
* Continued the report writing

30/06/2025

* Attended in-person-meeting

01/07/2025

* Updated aqua\_io.py on findings of meeting
* Started creating interfacing diagram

02/07/2025

* Researched MOSFET to be used and completed MOSFET driver circuit design
* Attended the weekly meeting