

Final Project

1. select a motor-sensory-motor loop (not the loop of exercise 2)
2. describe the loop (computation, algorithm, implementation)
3. analyze the loop (controlled variables, basic transfer functions, basic loop behavior, sensory coding)
4. suggest experiments to test the controlled variables, basic transfer functions, and sensory coding of the loop – careful & rational experimental design is crucial.
5. suggest experiments to test the algorithm implemented by the loop and the computation done by it – careful & rational experimental design is crucial.

To get an additional credit point:

Either

7. construct a simulation of the loop that demonstrates its computation, algorithm and implementation, and in which transfer functions can be modified and loop variables can be monitored and tracked. The loop should respond to any arbitrary external stimulus.

OR

7. run experiment in which you either:
 - characterize a transfer function of one loop component
 - identify a controlled variable of the loop
 - reveal the computation done by the loop
 - reveal the algorithm implemented by the loop