Actual LOC to-date:

Objects/Classes	LOC //(counting comments)
Main	61
radio	67
VORSystem	121
driverTest	185
VORQuadrantsSystemTest	187

Estimated LOC at completion:

Objects/Classes	LOC
Main	45 //in TA3 we plan to implement UI loop instead of hard-codes, for fewer LOC
radio	67
VORSystem	121
driverTest	185
VORQuadrantsSystemTest	187

total effort to-date

Lambert Leong: 10 hours

William Mullen: 11.5 hours

Testing utilized the JUnit library and tests. We categorized testing into two parts, unit testing, which tests each function and its components and system testing, which evaluates the correctness of the program as a whole.

Unit testing involved the decomposition of the functions within each class (see driverTest.java). All class functions and variables visibility was changed to public so that the JUnit test class can access them. The radio class was the first class to be evaluated. It is necessary that our radio class functions properly because its output is being passed to our VOR system. The VOR system class was the next class to be evaluated. The tests were organized by function and each conditional, if/else clause, was tested

including corner cases. All test check out and the logic within each function appears to be correct.

Another test class (VORQuadrantsSystemTest.java) was created to evaluate the system as a whole. It looked at specific output of our VOR given a specific input. Different situations were created in which different variables were passed to the radio and VOR. In particular, we examined situations where the plane is in each of four quadrants given the same destination, plus different dot outputs, centered deflection, and abeam situations (system testing details can be found at https://github.com/TeamFisher-ICS414/VOR/Testing plan.xls). The output is evaluated for correctness and a correct answer assumes program correctness. All tests were valid.

code can be found at the link below:

https://github.com/TeamFisher-ICS414/VOR