```
[4.0K] asl_gremlin_msgs
    [6.8K]
            CMakeLists.txt
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       - [4.0K] asl_gremlin_msgs
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            msg
           361
                 MotorAngVel.msg
           441
                 MotorCmd.msg
           36]
                 MotorPwm.msg
          145]
                 RefTraj.msg
           48]
                 VehicleState.msg
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           package.xml
   [4.0K]
            src
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    [6.5K] CMakeLists.txt
    [4.0K]
            config
       - [ 656] rover_parameters.yaml
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        [4.0K] asl_gremlin_pkg
            [1.4K] GetParam.h
           - [1.3K]
                     SubscribeTopic.h
    [4.0K]
            launch
       \cdot [1.9K] asl_gremlin_launch.launch
    [2.3K] package.xml
    [4.0K]
            src
        [4.0K] asl gremlin pkg
          — [ 678] GetParam.cpp
— [ 44] SubscribeTopic.cpp
[2.0K] CMakeLists.txt
[4.0K]
        controller
    [4.0K] cfg
      — [ 733] controllerGainSet.cfg
    [7.7K] CMakeLists.txt
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        [4.0K] controller
           - [2.8K]
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            [5.5K]
                     BackSteppingController_main.h
           - [ 525]
                     ControllerBase.h
            [3.6K]
                     controller utilities.h
                     hdg_correct_final_v2.txt
            [8.1K]
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       - [3.9K]
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            [4.2K]
                     FeedbackSelected.h
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                     ForwardEuler.h
           - [1.1K]
                     Gps2xy.h
           - [6.5K]
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                 encoder_data_to_omega.cpp
encoder_to_pose.cpp
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        [4.0K]
            [6.8K] converted_encoder_to_omega.dat
[4.0K] plotting
               – [ 14K] left wheel angular vel.pdf
               - [ 537] plot_ang_vel.plt
- [ 245] plot_pose_from_encoder.plt
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[ 14K] pose_from_encoder_ticks.pdf
                 - [ 14K] right_wheel_angular_vel.pdf
              [ 13K] pose_from_encoder.txt
            — [9.7K]
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         [4.0K] matlab data
            - [7.8K] compass_hdg_data.txt
- [ 12K] compass_hdg_ENU.txt
- [ 40K] encoder_data.txt
              [ 17K]
                        omega_from_encoder.txt
              [ 19K]
                       pose encoder.txt
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[4.1K] test_encoder_to_pose.cpp
[1.5K] test_forward_euler.cpp
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                   test_publish_compass_hdg.cpp
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                       trajectory_publisher.h
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utility_pkg
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— [ 267] utilities.h
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                 43]
                       custom_algorithms.cpp
                35]
                        str_manip.cpp
            — [ 679]
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44 directories, 103 files