```
[4.0K] asl_gremlin_msgs
    [6.8K]
             CMakeLists.txt
     [4.0K]
             include
       - [4.0K] asl_gremlin_msgs
            msg
    [4.0K]
           36] MotorAngVel.msg
           381
                 MotorPwm.msg
          145]
                 RefTraj.msg
           48]
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    [2.5K]
            package.xml
    [4.0K]
             src
    OK] asl_gremlin_pkg
[6.8K] CMakeLists.txt
[4.0K] config
[4.0K]
      — [ 705] rover_parameters.yaml
— [ 664] topic_names.yaml
    [4.0K] include
        [4.0K] asl_gremlin_pkg
            [1.6K] GetParam.h
           - [1.6K]
                     SubscribeTopic.h
    [4.0K] launch
       [1.3K]
                 launch_asl_gremlin.launch
        [ 339]
                 load_params.launch
    [2.3K] package.xml
    [4.0K]
             scripts
       - [2.3K] plot_bag_file.py
    [4.0K] src
        [4.0K] asl_gremlin_pkg
          — [ 678] GetParam.cpp
— [ 44] SubscribeTopic.cpp
       - [2.2K] initiate_rosbag_node.cpp
[4.0K] bash_scripts
       41] APM_arm.sh
       44]
             APM disarm.sh
            launch_asl_gremlin.sh
record_sim_data.sh
      6871
      4771
    [1.0K]
             select_feedback.sh
      635]
             set_controller_gains.sh
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      614]
       84]
             start_sim.sh
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[2.0K] CMakeLists.txt
[4.0K] controller
    [4.0K] cfg
       [ 733] controllerGainSet.cfg
    [7.9K] CMakeLists.txt
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        [4.0K]
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           - [6.3K]
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           - [ <u>9</u>29]
                     ControllerBase.h
             [ 995]
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           - [8.1K]
                     hdg_correct_final_v2.txt
                     OmegaToPWM.h
             [1.1K]
    [4.0K] launch
       · [ 636] launch_controller.launch
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                 backstepping controller node.cpp
        [2.8K]
                 cmd_pwm_to_arduino_pwm.cpp
        [2.3K]
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                 controller
               47] BackSteppingController.cpp
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                39]
                     ControllerBase.cpp
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                 controllerGainSet client.cpp
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    [4.0K] cfg
       [ 797] feedbackSelect.cfg
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        [4.0K] state feedback
           - [1.8K]
                    EncoderDataToOmega.h
           - [4.9K]
                     FeedbackSelected.h
          -[1.3K]
                     ForwardEuler.h
           - [1.5K]
                     Gps2xy.h
    [4.0K]
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                 encoder_data_to_omega.cpp
encoder_to_pose.cpp
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        [4.8K]
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                 feedback selected.cpp
        [3.0K]
                 gps to pose.cpp
         [4.0K]
                 state_feedback
          [4.0K] EncoderDataToOmega.cpp
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          601] test controller.launch
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[ 355] test_encoder_to_pose.launch
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                      pose_encoder.txt
               54K]
                      reference_trajectory.txt
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                 test_controller.cpp
test_encoder_to_omega.cpp
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                 test_publish_compass_hdg.cpp
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                 test_publish_ref_traj.cpp
test_SubscribeTopic.cpp
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                     MinimumJerkTrajectory.cpp
                     TrajectoryBase.cpp
trajectory_publisher.cpp
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             [ 940]
                      custom type traits.h
             [1.9K]
                      str manip.h
             [2.3K]
                      tinyexpr.h
             [ 634]
                      utilities.h
           - [6.9K]
                      vector_arithmetic.h
  [2.2K] package.xml
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[4.0K] src

[4.0K] utility_pkg

[2.2K] CmdArgParser.cpp

[4.3] custom_algorithms.cpp

[35] str_manip.cpp

[20K] tinyexpr.c

[1.0K] utilities.cpp
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48 directories, 139 files