

- [4.0K] **asl_gremlin_msgs**
 - [6.8K] CMakeLists.txt
 - [4.0K] **include**
 - [4.0K] **asl_gremlin_msgs**
 - [4.0K] **msg**
 - [36] MotorAngVel.msg
 - [38] MotorPwm.msg
 - [145] RefTraj.msg
 - [48] VehicleState.msg
 - [2.5K] package.xml
 - [4.0K] **src**
- [4.0K] **asl_gremlin_pkg**
 - [6.5K] CMakeLists.txt
 - [4.0K] **config**
 - [675] rover_parameters.yaml
 - [4.0K] **include**
 - [4.0K] **asl_gremlin_pkg**
 - [1.4K] GetParam.h
 - [1.3K] SubscribeTopic.h
 - [4.0K] **launch**
 - [651] launch_asl_gremlin.launch
 - [1.9K] load_parameters.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
 - [4.0K] **include**
 - [4.0K] **controller**
 - [5.7K] BackSteppingController.h
 - [559] ControllerBase.h
 - [3.6K] controller_utilities.h
 - [8.1K] **hdg_correct_final_v2.txt**
 - [715] OmegaToPWM.h
 - [4.0K] **launch**
 - [416] launch_controller.launch
 - [2.7K] package.xml
 - [4.0K] **src**
 - [1.0K] angular_vel_to_pwm_node.cpp
 - [2.4K] backstepping_controller_node.cpp
 - [4.0K] **controller**
 - [47] BackSteppingController.cpp
 - [39] ControllerBase.cpp
 - [1.4K] OmegaToPWM.cpp
 - [3.9K] controllerGainSet_client.cpp
- [1.0K] LICENSE
- [4.0K] **state_feedback**
 - [4.0K] **cfg**
 - [797] feedbackSelect.cfg
 - [8.1K] CMakeLists.txt
 - [4.0K] **include**
 - [4.0K] **state_feedback**
 - [1.4K] EncoderDataToOmega.h
 - [4.2K] FeedbackSelected.h
 - [949] ForwardEuler.h
 - [1.1K] Gps2xy.h
 - [4.0K] **launch**
 - [932] launch_state_feedback.launch
 - [2.8K] package.xml
 - [4.0K] **src**
 - [2.2K] encoder_data_stamped.cpp
 - [2.2K] encoder_data_to_omega.cpp
 - [4.3K] encoder_to_pose.cpp
 - [694] feedback_selected.cpp
 - [2.8K] gps_to_pose.cpp
 - [4.0K] **state_feedback**
 - [3.7K] EncoderDataToOmega.cpp
 - [45] FeedbackSelected.cpp
 - [41] ForwardEuler.cpp
 - [2.6K] Gps2xy.cpp
- [4.0K] **test_asl_gremlin**
 - [9.1K] CMakeLists.txt
 - [4.0K] **include**
 - [4.0K] **test_asl_gremlin**
 - [4.0K] **launch**
 - [601] test_controller.launch
 - [357] test_encoder_to_omega.launch
 - [355] test_encoder_to_pose.launch
 - [2.8K] package.xml
 - [4.0K] **src**
 - [4.0K] **cpp_output_data**
 - [8.4K] cmd_ang_vel.dat
 - [4.1K] cmd_pwm.dat
 - [6.8K] converted_encoder_to_omega.dat

- [4.0K] **plotting**
 - [14K] left_wheel_angular_vel.pdf
 - [16K] left_wheel_ang_vel_cmd.pdf
 - [14K] left_wheel_pwm_cmd.pdf
 - [537] plot_ang_vel.plt
 - [504] plot_cmd_ang_vel.plt
 - [452] plot_cmd_pwm.plt
 - [245] plot_pose_from_encoder.plt
 - [14K] pose_from_encoder_ticks.pdf
 - [14K] right_wheel_angular_vel.pdf
 - [16K] right_wheel_ang_vel_cmd.pdf
 - [15K] right_wheel_pwm_cmd.pdf
 - [14K] pose_from_encoder.txt
 - [9.7K] reference_traj.dat
 - [4.0K] **matlab_data**
 - [19K] actual_state.txt
 - [19K] cmd_ang_vel_matlab.txt
 - [19K] cmd_pwm_matlab.txt
 - [7.8K] compass_hdg_data.txt
 - [12K] compass_hdg_ENU.txt
 - [40K] encoder_data.txt
 - [17K] omega_from_encoder.txt
 - [19K] pose_encoder.txt
 - [54K] reference_trajectory.txt
 - [1.2K] test_ang_vel_to_pwm.cpp
 - [2.3K] test_controller.cpp
 - [1.6K] test_encoder_to_omega.cpp
 - [4.0K] test_encoder_to_pose.cpp
 - [1.5K] test_forward_euler.cpp
 - [2.4K] test_polynomial_evaluation.cpp
 - [994] test_publish_compass_hdg.cpp
 - [1.8K] test_publish_encoder_ticks.cpp
 - [1.4K] test_publish_feedback_selected.cpp
 - [1.3K] test_publish_ref_traj.cpp
 - [767] test_SubscribeTopic.cpp
- [4.0K] **trajectory_generation**
 - [4.0K] **cfg**
 - [552] waypointSet.cfg
 - [7.6K] CMakeLists.txt
 - [4.0K] **include**
 - [4.0K] **trajectory_generation**
 - [691] DistanceToWaypoint.h
 - [1.7K] EvaluatePolynomial.h
 - [4.7K] MinimumJerkTrajectory.h
 - [655] TrajectoryBase.h
 - [264] trajectory_publisher.h
 - [1.0K] WaypointSubscribe.h
 - [4.0K] **launch**
 - [244] launch_trajectory_generation.launch
 - [2.7K] package.xml
 - [4.0K] **src**
 - [4.0K] **trajectory_generation**
 - [1.2K] DistanceToWaypoint.cpp
 - [57] MinimumJerkTrajectory.cpp
 - [50] TrajectoryBase.cpp
 - [217] trajectory_publisher.cpp
 - [2.1K] WaypointSubscribe.cpp
 - [3.2K] trajectory_generator_node.cpp
 - [2.5K] waypointSet_client.cpp
- [0] tree_view.html
- [24K] tree_view.pdf
- [4.0K] **utility_pkg**
 - [6.8K] CMakeLists.txt
 - [4.0K] **include**
 - [4.0K] **utility_pkg**
 - [656] CmdArgParser.h
 - [1.3K] custom_algorithms.h
 - [562] custom_type_traits.h
 - [2.3K] str_manip.h
 - [267] utilities.h
 - [6.5K] vector_arithmetic.h
 - [2.2K] package.xml
 - [4.0K] **src**
 - [4.0K] **utility_pkg**
 - [1.8K] CmdArgParser.cpp
 - [43] custom_algorithms.cpp
 - [35] str_manip.cpp
 - [679] utilities.cpp

46 directories, 121 files