

- [4.0K] **asl\_gremlin\_msgs**
  - [6.8K] CMakeLists.txt
  - [4.0K] **include**
    - [4.0K] **asl\_gremlin\_msgs**
  - [4.0K] **msg**
    - [ 36] MotorAngVel.msg
    - [ 44] MotorCmd.msg
    - [ 36] 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**
    - [1.6K] default.yaml
  - [4.0K] **include**
    - [4.0K] **asl\_gremlin\_pkg**
      - [1.3K] SubscribeTopic.h
  - [4.0K] **launch**
    - [ 99] asl\_gremlin\_launch.launch
  - [2.3K] package.xml
  - [4.0K] **src**
    - [4.0K] **asl\_gremlin\_pkg**
      - [ 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**
      - [2.8K] BackSteppingController.h
      - [5.5K] BackSteppingController\_main.h
      - [ 525] ControllerBase.h
      - [ 187] controller\_utilities.h
      - [ 713] OmegaToPWM.h
  - [2.6K] package.xml
  - [4.0K] **src**
    - [ 958] angular\_vel\_to\_pwm\_node.cpp
    - [2.2K] backstepping\_controller\_node.cpp
    - [4.0K] **controller**
      - [ 52] BackSteppingController.cpp
      - [ 39] ControllerBase.cpp
      - [1.6K] 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**
      - [ 570] custom\_type\_traits.h
      - [1.4K] EncoderDataToOmega.h
      - [4.4K] FeedbackSelected.h
      - [ 914] ForwardEuler.h
      - [1.1K] Gps2xy.h
      - [6.5K] vector\_arithmetic.h
  - [2.7K] package.xml
  - [4.0K] **src**
    - [2.1K] encoder\_data\_stamped.cpp
    - [1.5K] encoder\_data\_to\_omega.cpp
    - [3.8K] encoder\_to\_pose.cpp
    - [ 487] feedback\_selected.cpp
    - [2.7K] gps\_to\_pose.cpp
    - [4.0K] **state\_feedback**
      - [3.9K] EncoderDataToOmega.cpp
      - [ 45] FeedbackSelected.cpp
      - [ 41] ForwardEuler.cpp
      - [2.8K] Gps2xy.cpp
- [4.0K] **test\_asl\_gremlin**
  - [7.2K] CMakeLists.txt
  - [4.0K] **include**
    - [4.0K] **test\_asl\_gremlin**
  - [2.8K] package.xml
  - [4.0K] **src**
    - [9.7K] reference\_traj.dat
    - [2.4K] test\_polynomial\_evaluation.cpp
    - [ 767] test\_SubscribeTopic.cpp
- [4.0K] **trajectory\_generation**
  - [4.0K] **cfg**
    - [ 535] waypointSet.cfg
  - [7.6K] CMakeLists.txt
  - [4.0K] **include**
    - [4.0K] **trajectory\_generation**
      - [ 689] DistanceToWaypoint.h
      - [1.7K] EvaluatePolynomial.h
      - [4.7K] MinimumJerkTrajectory.h

- [ 641] TrajectoryBase.h
    - [ 268] trajectory\_publisher.h
    - [ 945] WaypointSubscribe.h
  - [4.0K] **launch**
    - [ 213] 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
      - [2.0K] WaypointSubscribe.cpp
    - [2.5K] trajectory\_generator\_node.cpp
    - [2.6K] waypointSet\_client.cpp
- [ 23K] 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
      - [ 378] error\_util.h
      - [2.3K] str\_manip.h
      - [ 267] utilities.h
  - [2.1K] package.xml
  - [4.0K] **src**
    - [4.0K] **utility\_pkg**
      - [1.8K] CmdArgParser.cpp
      - [ 43] custom\_algorithms.cpp
      - [1.1K] error\_util.cpp
      - [ 35] str\_manip.cpp
      - [ 679] utilities.cpp

40 directories, 82 files