Results for MPC:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | x | y | V | theta |
| skidpad\_clean\_v\_1\_5\_d\_0\_312\_filtered | 0.019 | 0.0 | 0.02 | 0 |
| skidpad\_clean\_v\_1\_5\_d\_0\_312\_filtered\_ol | 0.28 | 0.14 | 0.08 | 0.6 |
|  |  |  |  |  |
| skidpad\_clean\_v\_0\_5\_d\_0\_520\_filtered | 0.03 | 0.13 | 0.014 | 0.014 |
| skidpad\_clean\_v\_0\_5\_d\_0\_520\_filtered\_ol | 0.91 | 0.93 | 0 | 0.98 |
|  |  |  |  |  |
| skidpad\_ccw\_clean\_v\_2\_0\_d\_0\_520\_filtered | 0.02 | 0.0 | 0.06 | 0.09 |
| skidpad\_ccw\_clean\_v\_2\_0\_d\_0\_520\_filtered\_ol | 1.45 | 1.38 | 0.00 | 1.27 |
|  |  |  |  |  |
| fishhook\_clean\_v\_1\_5\_filtered | 0.11 | 0.14 | 0.10 | 0.34 |
| fishhook\_clean\_v\_1\_5\_filtered\_ol | 1.43 | 1.73 | 0.00 | 3.73 |
|  |  |  |  |  |
| fishhook\_clean\_v\_2\_0\_filtered | 0.08 | 0.01 | 0.19 | 0.00 |
| fishhook\_clean\_v\_2\_0\_filtered\_ol | 2.02 | 1.96 | 0.00 | 0.86 |
|  |  |  |  |  |
| fishhook\_clean\_v\_2\_5\_filtered | 0.34 | 0.15 | 0.74 | 0.69 |
| fishhook\_clean\_v\_1\_5\_filtered\_ol | 1.49 | 1.40 | 0.00 | 1.53 |
|  |  |  |  |  |
| fishhook\_noisy\_v\_1\_5\_filtered | 0.81 | 0.4 | 0.06 | 0.17 |
| fishhook\_noisy\_v\_1\_5\_filtered\_ol | 1.13 | 1.05 | 0.05 | 13.9 |
|  |  |  |  |  |
| fishhook\_noisy\_v\_2\_5\_filtered | 0.98 | 0.75 | 0.03 | 0.58 |
| fishhook\_noisy\_v\_2\_5\_filtered\_ol | 8.29 | 1.32 | 0.03 | 5.94 |
|  |  |  |  |  |
| slalom\_clean\_v\_0\_5\_d\_0\_416\_filtered | 0.0 | 0.0 | 0.0 | 0.05 |
| slalom\_clean\_v\_0\_5\_d\_0\_416\_filtered\_ol | 0.06 | 0.01 | 0.05 | 0.08 |
|  |  |  |  |  |
| slalom\_noisy\_v\_0\_5\_d\_0\_520\_filtered | 0.007 | 0.015 | 0.00 | 0.017 |
| slalom\_noisy\_v\_0\_5\_d\_0\_520\_filtered\_ol | 0.196 | 0.06 | 0.0 | 0.103 |
|  |  |  |  |  |
| teleop\_05\_filtered | 1.15 | 0.42 | 0.48 | 1.58 |
| teleop\_05\_filtered\_ol | 2.22 | 1.33 | 0.03 | 7.36 |
|  |  |  |  |  |
| teleop\_07\_filtered | 1.19 | 0.38 | 0.86 | 1.52 |
| teleop\_07\_filtered\_ol | 2.77 | 2.39 | 0.00 | 2.97 |