Motion Profile Trajectory generated by MCSF

| | |
|---|---|
| maxV(rps) | 4 |
| maxA(rps/s) | 10 |
| dist(r) | 5 |
| ItP(ms) | 25 |
| T1(ms) | 400 |
| T2(ms) | 200 |
| T4(ms) | 1250 |
| FL1 | 16 |
| FL2 | 8 |
| N | 50 |

| Step | Time(s) | Filter1 sum | Filter2 sum | Vel(RPS) | Pos(R) | Accel(RPS/S) | Dur(ms) |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 2 | 0.025 | 0.0625 | 0.0625 | 0.0555556 | 0.00069444 | 2.22222 | 25 |
| 3 | 0.05 | 0.125 | 0.1875 | 0.138889 | 0.003125 | 3.33333 | 25 |
| 4 | 0.075 | 0.1875 | 0.375 | 0.25 | 0.00798611 | 4.44444 | 25 |
| 5 | 0.1 | 0.25 | 0.625 | 0.388889 | 0.0159722 | 5.55556 | 25 |
| 6 | 0.125 | 0.3125 | 0.9375 | 0.555556 | 0.0277778 | 6.66667 | 25 |
| 7 | 0.15 | 0.375 | 1.3125 | 0.75 | 0.0440972 | 7.77778 | 25 |
| 8 | 0.175 | 0.4375 | 1.75 | 0.972222 | 0.065625 | 8.88889 | 25 |
| 9 | 0.2 | 0.5 | 2.25 | 1.22222 | 0.0930556 | 10 | 25 |
| 10 | 0.225 | 0.5625 | 2.75 | 1.47222 | 0.126736 | 10 | 25 |
| 11 | 0.25 | 0.625 | 3.25 | 1.72222 | 0.166667 | 10 | 25 |
| 12 | 0.275 | 0.6875 | 3.75 | 1.97222 | 0.212847 | 10 | 25 |
| 13 | 0.3 | 0.75 | 4.25 | 2.22222 | 0.265278 | 10 | 25 |
| 14 | 0.325 | 0.8125 | 4.75 | 2.47222 | 0.323958 | 10 | 25 |
| 15 | 0.35 | 0.875 | 5.25 | 2.72222 | 0.388889 | 10 | 25 |
| 16 | 0.375 | 0.9375 | 5.75 | 2.97222 | 0.460069 | 10 | 25 |
| 17 | 0.4 | 1 | 6.25 | 3.22222 | 0.5375 | 10 | 25 |
| 18 | 0.425 | 1 | 6.6875 | 3.41667 | 0.620486 | 7.77778 | 25 |
| 19 | 0.45 | 1 | 7.0625 | 3.58333 | 0.707986 | 6.66667 | 25 |
| 20 | 0.475 | 1 | 7.375 | 3.72222 | 0.799306 | 5.55556 | 25 |
| 21 | 0.5 | 1 | 7.625 | 3.83333 | 0.89375 | 4.44444 | 25 |
| 22 | 0.525 | 1 | 7.8125 | 3.91667 | 0.990625 | 3.33333 | 25 |
| 23 | 0.55 | 1 | 7.9375 | 3.97222 | 1.08924 | 2.22222 | 25 |
| 24 | 0.575 | 1 | 8 | 4 | 1.18889 | 1.11111 | 25 |
| 25 | 0.6 | 1 | 8 | 4 | 1.28889 | 0 | 25 |
| 26 | 0.625 | 1 | 8 | 4 | 1.38889 | 0 | 25 |
| 27 | 0.65 | 1 | 8 | 4 | 1.48889 | 0 | 25 |
| 28 | 0.675 | 1 | 8 | 4 | 1.58889 | 0 | 25 |
| 29 | 0.7 | 1 | 8 | 4 | 1.68889 | 0 | 25 |
| 30 | 0.725 | 1 | 8 | 4 | 1.78889 | 0 | 25 |
| 31 | 0.75 | 1 | 8 | 4 | 1.88889 | 0 | 25 |
| 32 | 0.775 | 1 | 8 | 4 | 1.98889 | 0 | 25 |
| 33 | 0.8 | 1 | 8 | 4 | 2.08889 | 0 | 25 |
| 34 | 0.825 | 1 | 8 | 4 | 2.18889 | 0 | 25 |
| 35 | 0.85 | 1 | 8 | 4 | 2.28889 | 0 | 25 |
| 36 | 0.875 | 1 | 8 | 4 | 2.38889 | 0 | 25 |