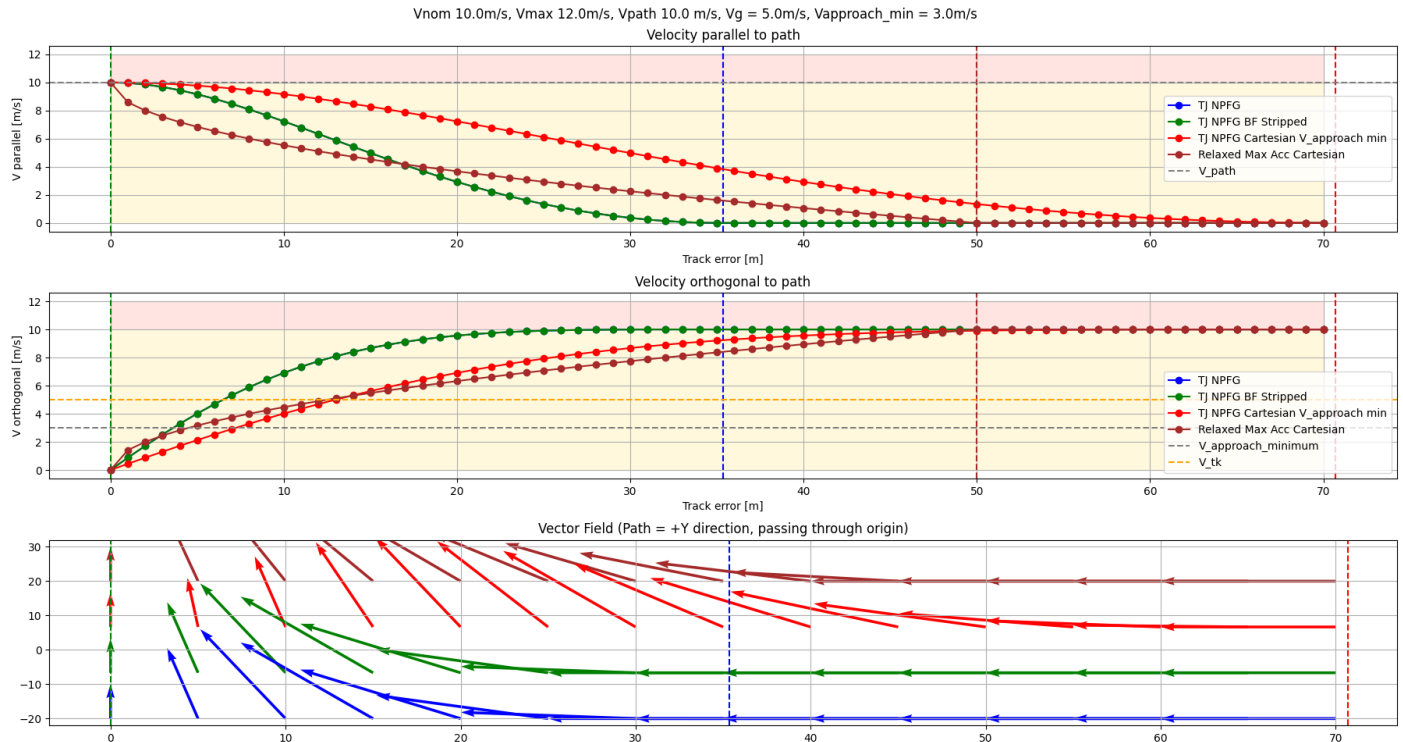


## Week 11 & 12 Report - Jan 30, 2023 ~ Feb 12, 2023

### Max Accel Curve Visualization

The Maximum Acceleration curve formulated in [Week10 Accel Limited Vel Curve Formulation v1.pdf](#) was drawn in the script for comparing the velocity curves.



- It is obvious that Max Acc Curve is more aggressive (depends on the max acc settings)

### Velocity Curves assimilating Unicyclic motion

- As discussed in Week 11 meeting, the maximum acceleration limited (brown curve above) velocity curve does not assimilate the unicyclic motion (TJ NPFG: Green curve above).
- This is inherently not possible, as the sine/cosine curve has a different form compared to the square-root curve.

### TODOs for the upcoming week

- Draw the Acceleration & other sorts of curves to evaluate the aggressiveness of the curves between each other.

END