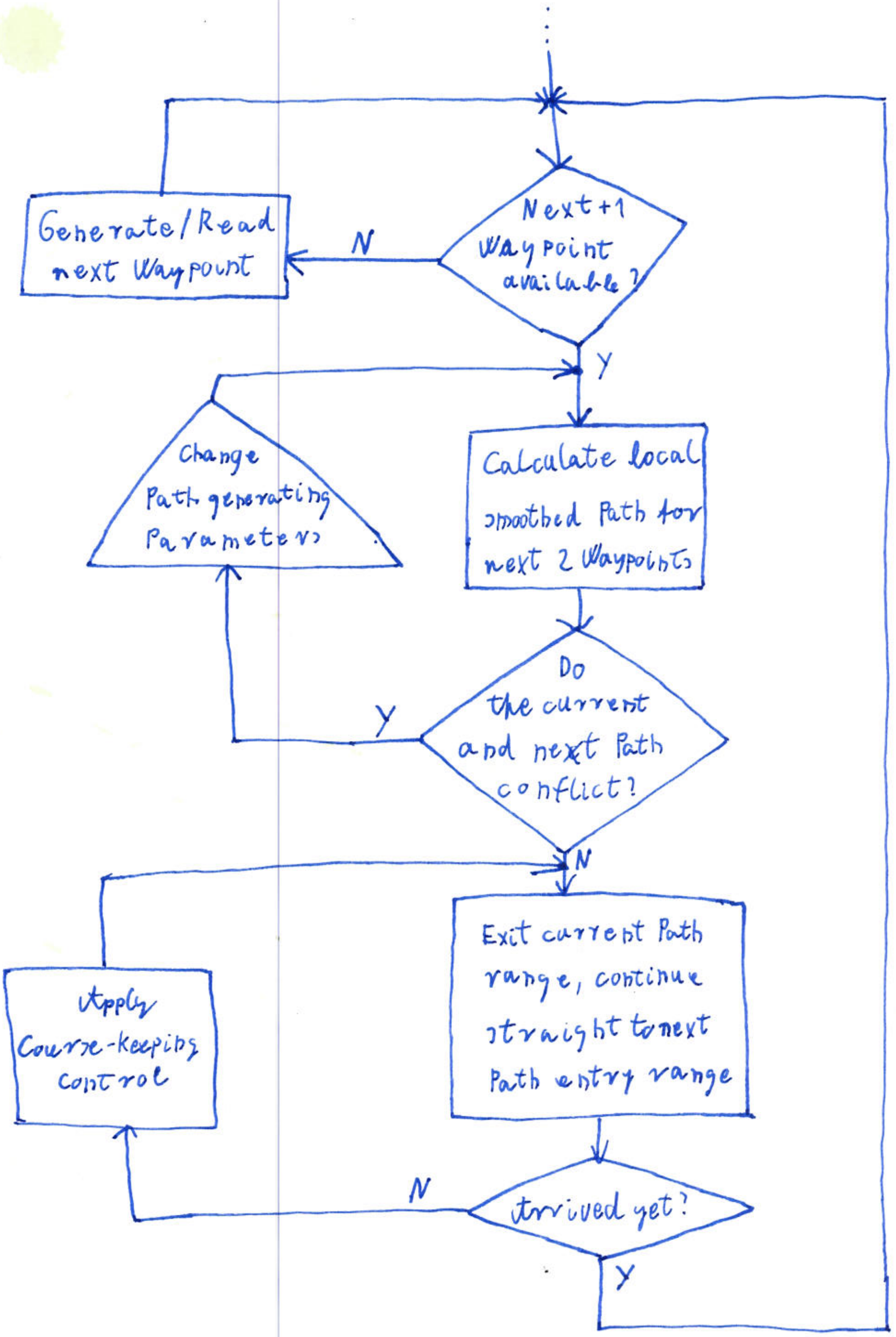
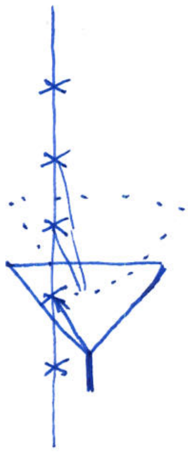
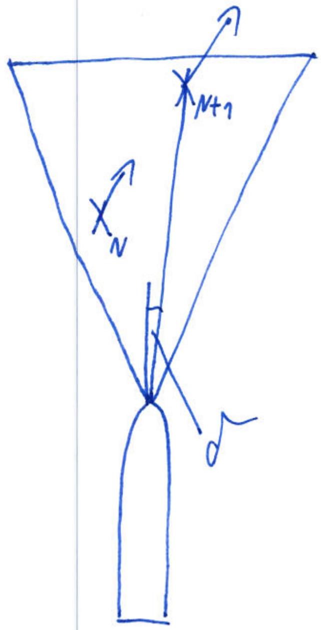
NAVIGATION

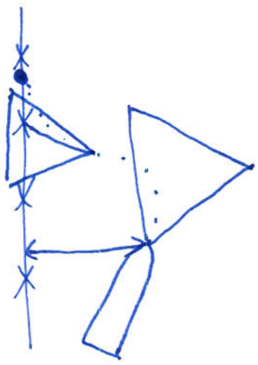


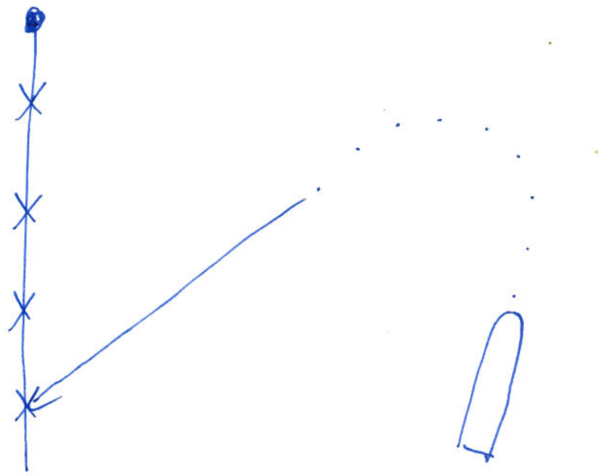
OUTDATED

Navigating along Path:



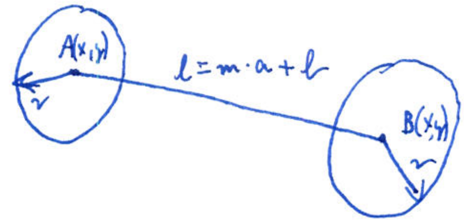




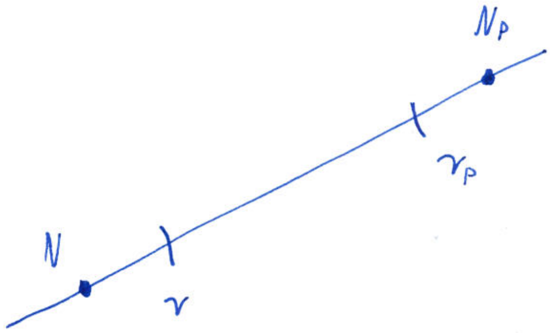


OUTDATED

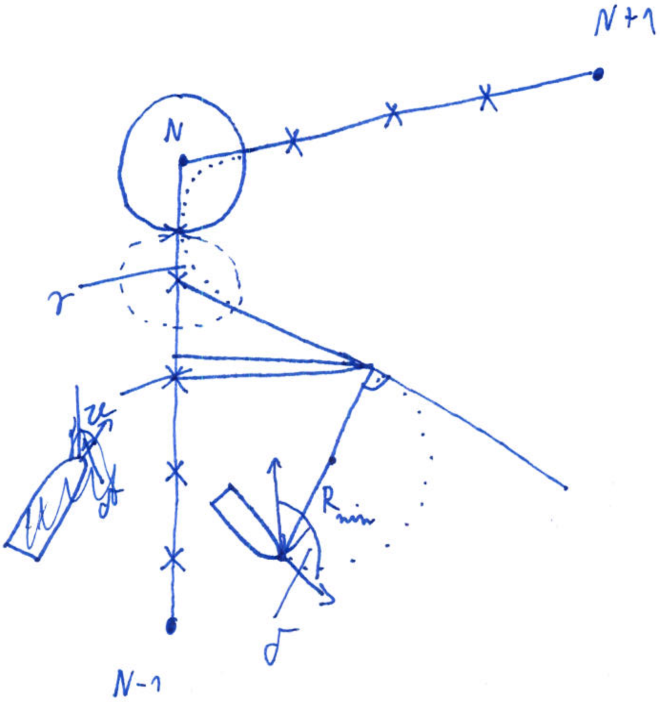
#3: Route between 2 Waypoints:



Sub - WayPoints:



#4: Deviation from Path ($\delta < \frac{\pi}{2}$)



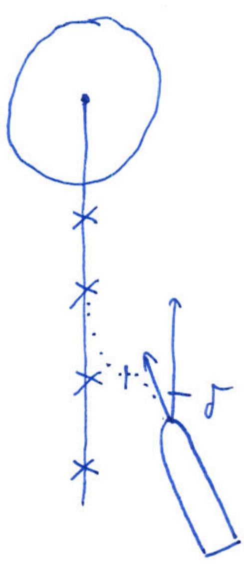
-1: Circular Path towards Next WP (N)

-2: When the ship faces the last sub-coordinate that is toward the next WP ($r \geq \frac{\pi}{2}$ and $u < \frac{\pi}{2}$) the circular path continues straight

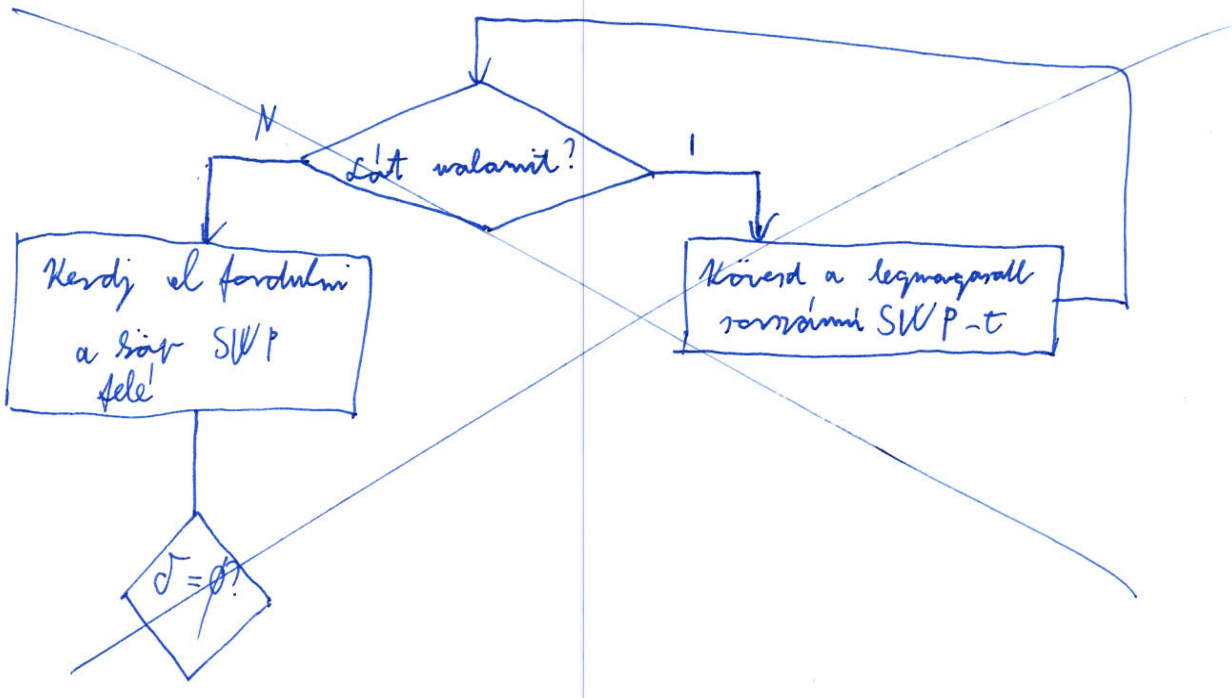
-3: The selected sub-WP is treated as a regular WP. The WP+1 that belongs to the Path is one of the following:

- Sub-WP(n+1)
- N (if Sub-WP(n) was the last Sub-WP)
- Sub-WP+1(1) if the range of the return-Path and the range of the normal Path conflicts

-4: Continue on toward either N or N+1 depending on the solution of (-3)



Navigálás


N
I
Lát valamit?
Kerülj el fordulni a Sáp SWP felé!
Kövesd a legnagyobb sorszámú SWP-t
$\sigma = \emptyset$?

Proportionality of the Euler - spiral:

$$\sigma = \frac{\rho_{max}}{v_{max}^2}$$

Describing equations:

if $v_{max} t = \frac{\kappa}{\sigma}$ ↓

$$x(t) = \sqrt{\frac{\pi}{\sigma}}\; C_F\left(\sqrt{\frac{\sigma}{\pi}}\, v_{max} t\right) = \sqrt{\frac{\pi}{\sigma}}\; C_F\left(\frac{\kappa}{\sqrt{\pi\sigma}}\right)$$

$$y(t) = \sqrt{\frac{\pi}{\sigma}}\; S_F\left(\sqrt{\frac{\sigma}{\pi}}\, v_{max} t\right) = \sqrt{\frac{\pi}{\sigma}}\; S_F\left(\frac{\kappa}{\sqrt{\pi\sigma}}\right)$$

$$\psi(t) = \frac{1}{2} v_{max}^2 t^2 \qquad \psi(t) = \frac{\kappa^2}{2\sigma}$$

$$\kappa(t) = \sigma v_{max} t$$