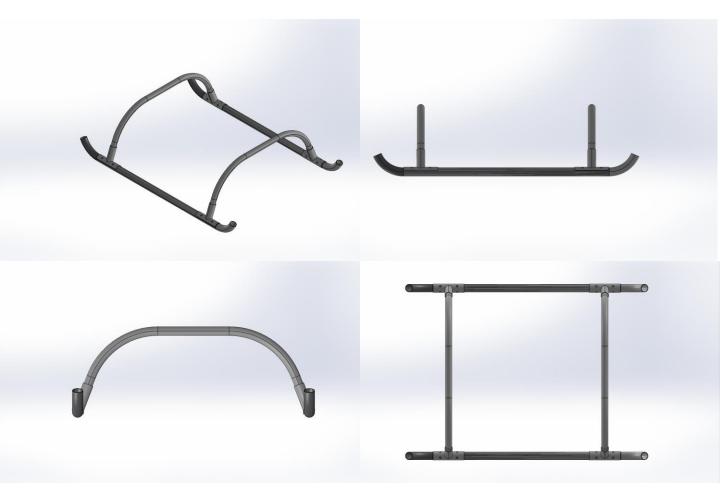
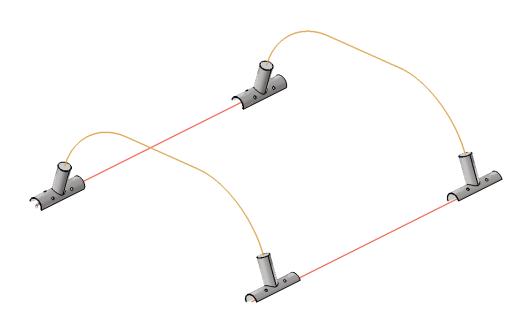
1. Step: CAD modeling (Catia 3DEXPERIENCE):

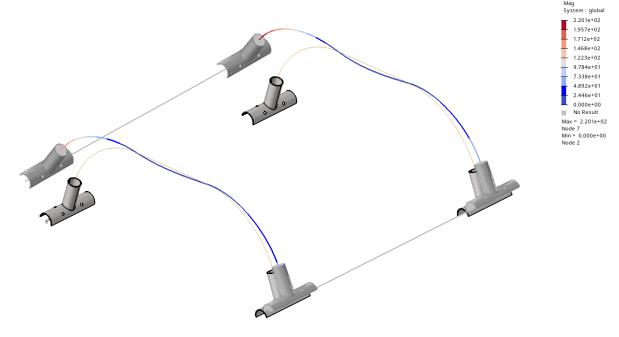


2. Step: FEM modeling, converting beams into 1D mesh elements to allow quick interchanging of cross sections (Hypermesh, Optistruct)





3. Step: FEM analysis

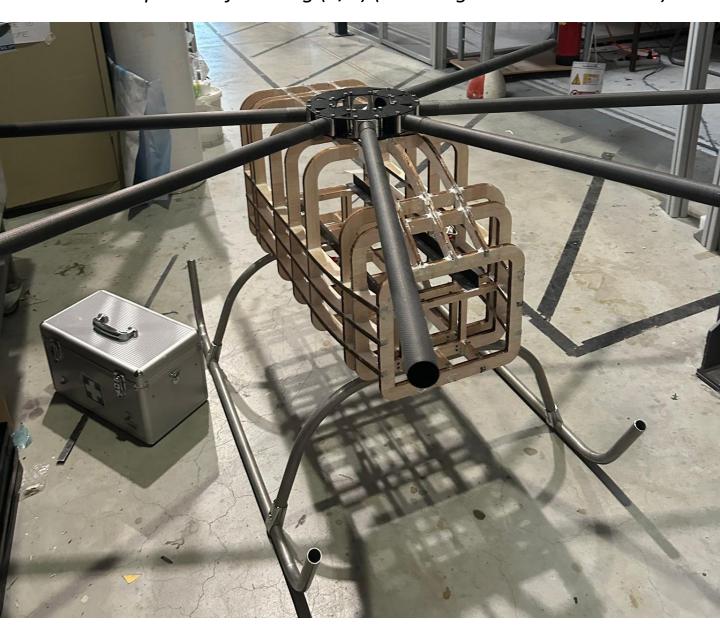




4. Step: Manufacturing (1/2) (done together with the team)



4. Step: Manufacturing (2/2) (done together with the team)



5. Step: Testing (done together with the team)

Drop test:

https://youtube.com/shorts/KpsI9FThIVs?feature=share

Flight test:

https://youtube.com/shorts/SeqNtIHW7CI?feature=share

Currently working on my Bachelor's Thesis: Automatised Parametrisation and FE Meshing of an Aircraft Wing Box

For my thesis I am developing a code that converts a wing which is defined by DLR's CPACS framework into a wing box in Nastran. A static analysis will automatically run and the results will be extracted and interpreted.

