# From a steal-tube to a flying "crane-jib"!

the idea the enthusiasm the reality the problem the solution the aeroplane!

edy schuetz

# the idea

An aeroplane, where flying a simple reality and the feels like in the beginning of flying.



Feel the nature..... Fly breezy!

# the idea

Not every car driver with a lot of driving experience is a car maker! (like me in 1991) ... but ...



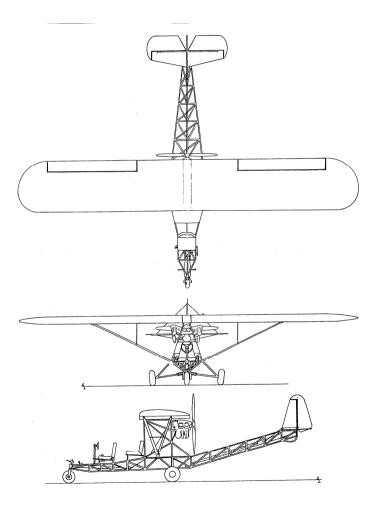
# the idea

Remembering 1976, a swiss aeroplane that was real special!



# the enthusiasm

After a lot of research, i discovered the kit in USA.



# the reality

3D modelling was the basic for the hard work.





# the reality

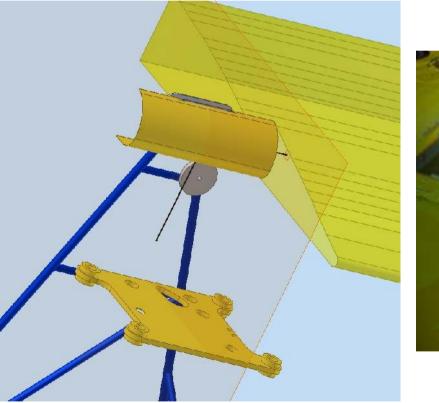
From the tube to the frame!





### the reality

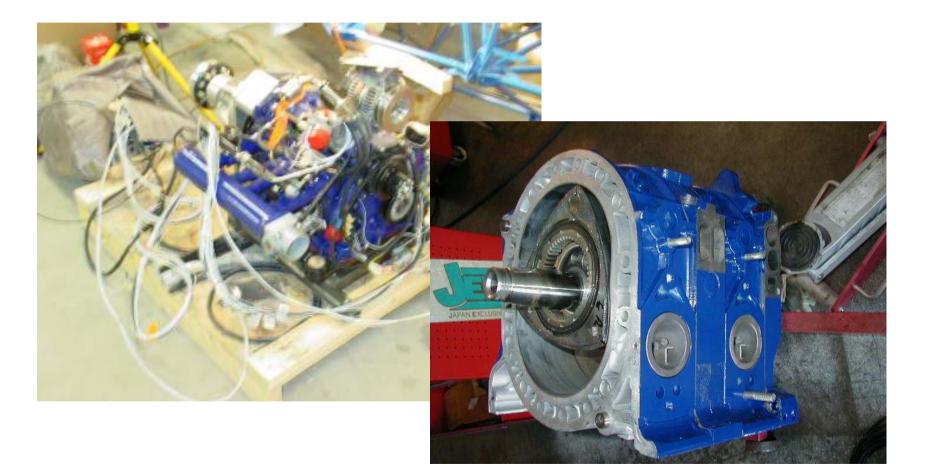
Not only welding is a hot job!





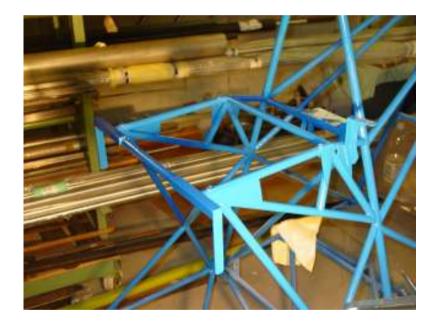
# the problem

Rotary engine: Mazda Wankel 13B, 180 HP



#### the problem

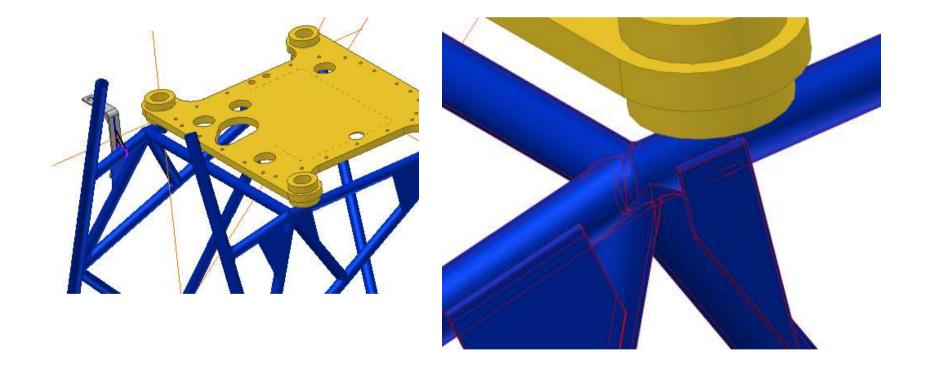
# Calculation of the stength of the engine-mounting (Fg = 1400N , former 950N)



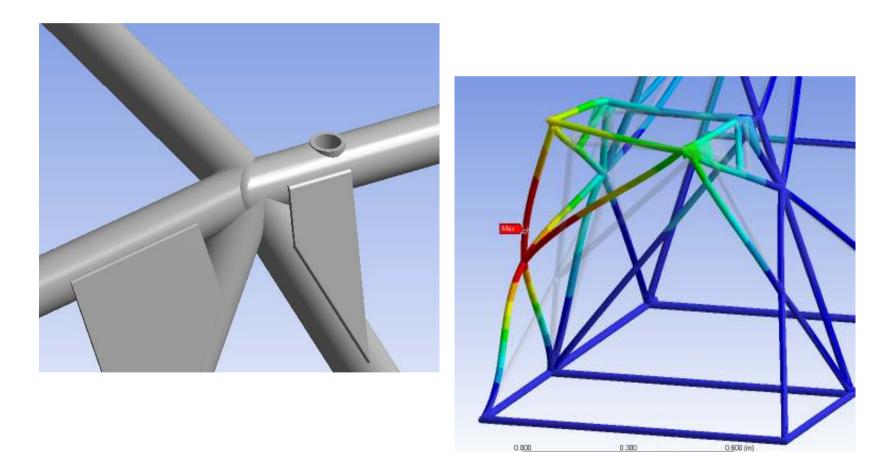


#### the problem

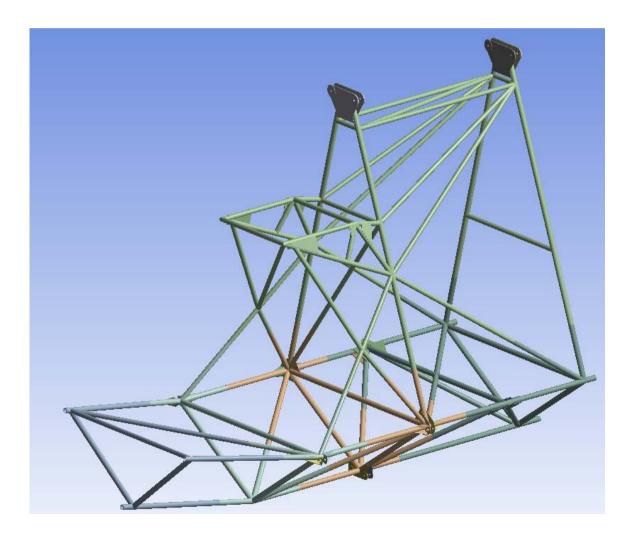
The 3D modell – the reality in FEM-tool "design space".



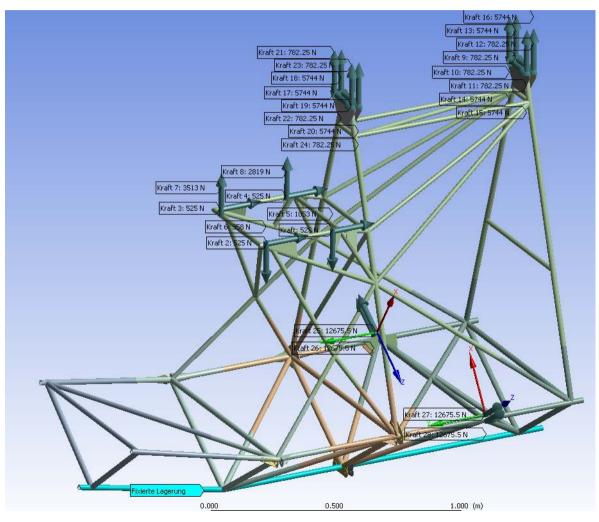
The perfect tube-construction of the engine-mounting.



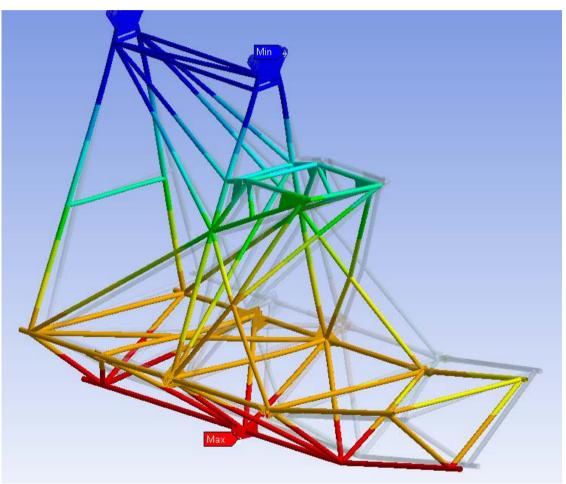
#### The modell of the fuselage, 3D CAD. (MTOW 1750 lb !)



#### The general conditions.



The deformation.



On ground with a bird watching.



#### Ready to go!



5 meter from the ground in the air!



First flight october 2006 near Zuerich, Switzerland!

